UPDATED REPEATER INDEXES — NC, SC, VA, WV, TN, KY, GA, MS INSIDE!

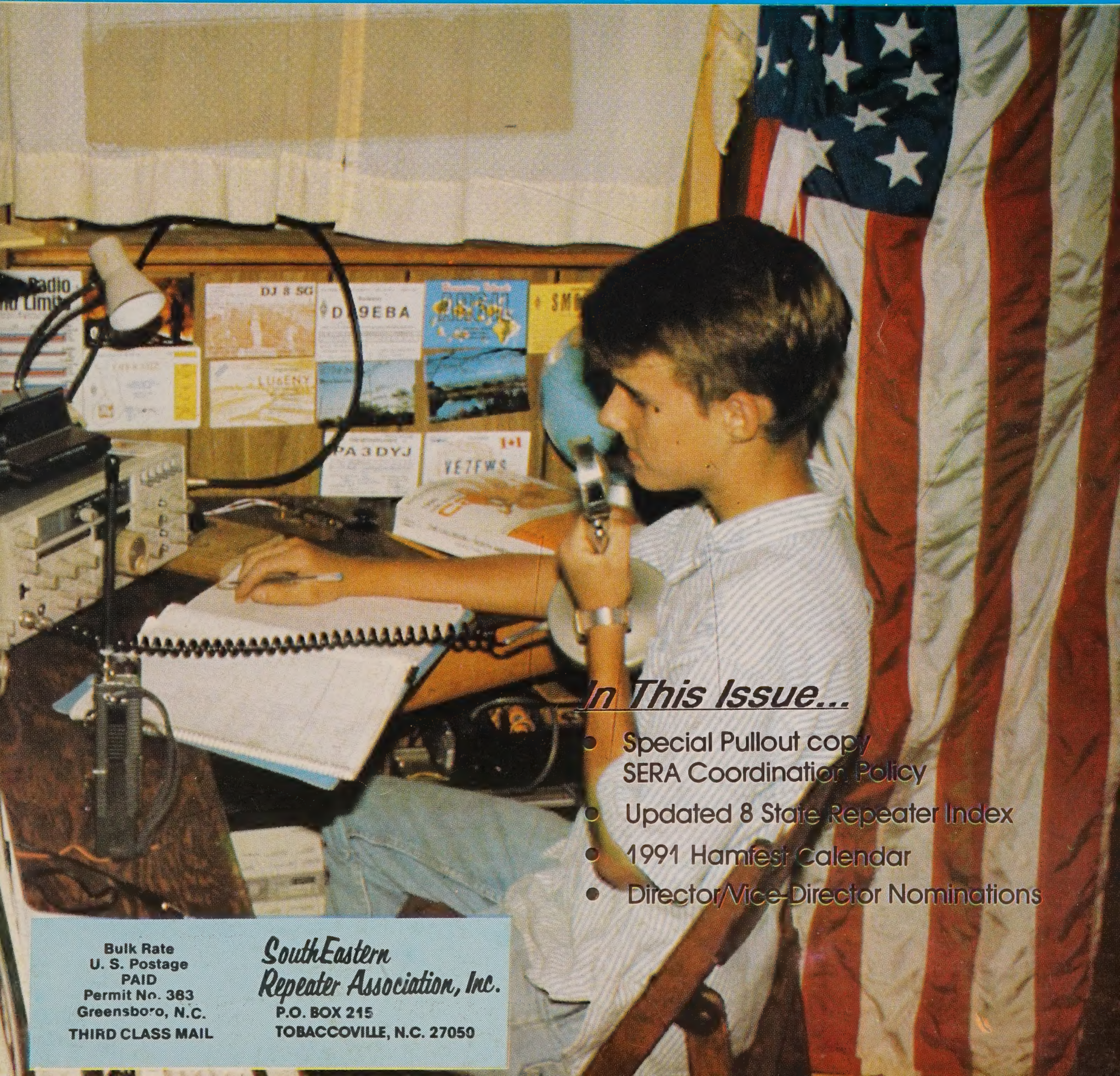
# REPEATER JOURNAL

SouthEastern Repeater Association, Inc.

November
1990

2.50

Representing Coordination and VHF/UHF Interests Throughout North Carolina, South Carolina, Virginia, Tennessee, West Virginia, Kentucky, Georgia and Mississippi.



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- Special Pullout copy SERA Coordination Policy
- Updated 8 State Repeater Index
- 1991 Hamfest Calendar
- Director/Vice-Director Nominations

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# ALINCO ELECTRONICS INC.

The 50th anniversary commemoration

## DR-590T(NEW)

### VHF/UHF Twin Band Mobile

144-147.995Mhz(RX137—173.995Mhz)
440-449.995Mhz(RX410—469.995Mhz)
45W Hi, 10W Mid., 5W Low on VHF
35W Hi, 8W Mid., 5W Low on UHF
Cross Band Repeater Function Simultaneous Receiving and Scanning on both Band
Front Control Panel is detachable. Remote Control will be available (Option)
MARS and CAP Modifiable (permit required)

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### Set your sights for dual!

The Alinco DR-570T "Twin Bander" has dual LCD readout, volume, squelch and tuning controls. Double barrelled power with 45W on 2M and 35W on 70 cm, plus simultaneous receive on both bands or intermix with four modes of scan. The DR-570T will win the "battle" with its illuminated front function panel and LCD readout, readable in any lighting conditions. Don't let the "Tiny" DR-570T fool you! It's fast, and leaves the competition in the dust with many standard features you expect. Cross band repeat with the flick of a switch. Full duplex, 20 memory channels, call channels, 16-key DTMF Microphone, and subtones are just a few. "Reach" for the DR-570T today!

## DR-110T & DR-410T

### Tiny 2M Power From Alinco!

DR-110T, this 2M Alinco, enters the nineties a proven winner with the "reputation" of best value. The DR-110T packs a powerful 45W on 2M and sports all the features you expect in todays transceivers. Tuning is a snap with the multi-functioned easy-to-see keyboard, 14 memory channels, subtones, scan, multi-colored LCD readout, reverse, are a few of the many features of the DR-110T. The mobile of the future-today! DR-410T available for 70 cm.

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### Best Dual Value on the Market!

The Alinco DR-510T has most of the outstanding features of it's sister the DR-570T, including 14 memory channels, cross band duplex and cross band repeat. The multi color LCD display, and simple tune control panel makes simplicity the key word. The DR-510T with 45/35 watts is the best, featurepacked dual bander on the Amateur market today. See the DR-510T along with the other Alinco "Magnificent" ones at your favorite dealer today!

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The DR-112T is a "True FM" full-power (45 watts) transceiver. The backlit LCD display is ideal for bright or dim lit conditions. And, as with most Alinco products, the control panel is engineered to be "User friendly" and still offer a full range of features.

# REPEATER JOURNAL

Nov., Dec., Jan., 1990-91

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(703) 326-3338

## Editorial Comment

### *We Need A New Direction!*

What direction do you think Amateur Radio is heading? Are you satisfied with the way things are at present? Should there be cause for alarm?

If you honestly take a few moments and think about these questions, you can really get quite disturbed. I think Amateur Radio has taken a turn for the worse.

I don't intend to get in a crying match over the garbage we hear on some of the HF bands, or how someone is purposely interfering with your conversations - these are just the facts of today's life.

What worries me is the direction we are training our new Amateurs today. We have Extra Class operators who can't even solder a PL—259 on a piece of RG-8. (PL-259??? What's that?) (RG-8?? Is that coax?) We have newly licensed Amateur operators who cannot hook up a 2-Meter radio in an automobile.

If you've purchased a new transceiver lately, have you noticed that both positive AND negative power cable is fused. That's right! People have been plugging them up backwards and blowing up radios. Have you noticed that most handi talkies won't receive when they are plugged into a wall charger. Yep! People been blowing up the little critters, trying to transmit while charging the battery.

Whose fault is this state we're getting into? It's ours my friends! We are not properly training today's young Amateurs so he will know what is going on. The poor folks are not ready for what they will face when they step into Amateur operation with a new callsigh.

Could it be we are so hung up on code, that we're spending too much time on that. Are we sticking by the book (study guide that is)? We can't blame those "appliance hams" anymore than we can blame ourselves. We have gotten complacent and are sitting back and letting "George" do it in the clubs. Apparently "George" isn't doing it properly either, probably because George was licensed, thrown in and had to learn for himself.

Folks, I really don't give a dang about code, Packet, Satellite or any other exotic operation. I could care less about the class license I hold. I don't really ever look at the awards I have won over the years any more. I don't even attend any club meetings of any clubs any more. Does this kind of sound familiar? Chances are, I just described your attitude toward Amateur Radio.

I know, we can all sit around and talk about the "good old days", but they are gone, and will never return. We have to look at the future. The future involves getting more young hams into our ranks. The future belongs to them. Us "ole timers" won't be around forever, but we need to leave the Amateur Radio Fraternity in better shape than we found it. We need to see that courtesy, fairness, help, friendliness, and love for our fellow ham returns to the airways and within our clubs and at our meetings.

Things change, times change, we all change but we need to stop, reflect to what we are changing to, and reverse things. It's not too late. Your club meeting programs are excellent forums for teaching and training your members. Interesting programs of Amateur Radio procedures and "hints and kinks" ideas will probably make some more people come to the meetings. It might pull some "ole timers" out of the woodwork if you get him to plan a program on the proper way to install a PL—259, or the proper way to trim you Diple for proper SWR.

*-Wayne C. Williams, K4MOB    Editor, The Repeater Journal*

# REPEATER JOURNAL

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ORGANIZED IN 1971
"In Our 19th Year"

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Give a Gift of News and Information! Give an SERA Associate Membership to your best friend and let him join the many Repeater Journal readers. Fill out the Application on Page 46 with his call, name and address and send it to us with $6.00.

## About Associate Membership

Repeater users and Amateurs are invited to join SERA as Associate Members. A membership fee of $6.00 per year will enable members to support the organization and receive the "Repeater Journal". Associate Membership deadlines are on the 15th of the month preceding months of publication — Jan. 15, April 15, July 15 and October 15. Persons joining or renewing their membership must have their application into the Winston-Salem Post Office Box by these deadlines to receive the next upcoming Repeater Journal in February, May, August and November. Memberships received after any deadline will not receive next to be published Journal, but instead will receive the forthcoming issue the following quarter. HOT-P Associate Memberships are limited to one year duration at $10.50 per year. HOT-P, your Journal is mailed on Friday FIRST CLASS mail. Regular memberships are mailed on MONDAY, Third Class Bulk. SERA does not issue receipts for Membership applications Members should wait until next Journal comes out to report any problems to the Associate Membership Chairman, P.O. Box 215, Tobaccoville, N.C. 27050-0215. Associate Members may hold appointive positions within SERA.

## About Full Repeater Membership. . .

Officers and Directors are elected from repeater representatives who are Full Members. Any repeater owner or club may join SERA as a Full Member if they have an operable repeater on the air. Full Membership application, coordination information (if not on file) and $15.00 should be submitted for the annual Full Membership fee. Two Full Members receive the Journal from each application. The Full Member repeater is also appropriately recognized as a SERA supporter in the repeater index. Full Memberships all expire on December 31 of each calendar year.

## About the Repeater Journal. . .

The SERA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of Southeastern Repeater Association, a seven state repeater coordinating organization made up of repeater owners and users. Permission is granted for use of material contained in the REPEATER JOURNAL provided proper credit is given. The REPEATER JOURNAL Editor will swap newsletters with other Repeater Councils and News organizations upon written request. DEADLINES: Ad space reservations are the 20th of the month, and ad copy due the 1st of the next month. ONE MONTH prior to publication. News deadlines are the first of the month prior to publication month. The REPEATER JOURNAL is entered as Third Class Mail at the Post Office in Greensboro, N.C. Cover price for the REPEATER JOURNAL is $2.50. All news and Newsletter exchanges should be mailed to the editor: Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C 27235.

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The Southeastern Repeater Association, Inc. is one of the largest, well known, and most respected non-profit Repeater Coordination Councils in the United States. SERA territory covers over 1,300 repeaters in member States of North Carolina, South Carolina, Virginia, Tennessee, West Virginia, Kentucky, Georgia and Mississippi. In our 19th year, our goal continues to serve the repeater owners and users of our area, and provide a pleasant operating condition in the VHF/UHF spectrum of Amateur Radio through Coordination and Communication.

# Director, Vice-Director Nominations are Made for 1991

*— by Carter Cogle, K4ARO, SERA President*

The Nominating Committee for State officers makes the following recommendations:

GEORGIA: Dave Shiplett, WL7ACY, Director; Jack Berry, W4PME, Vice-Director

KENTUCKY: Terry Estes, WB4ASZ, Director; No recommendation for Vice-Director

MISSISSIPPI: Steve Grantham, N5DWU, Director; Jim Akers, W5VZF, Vice-Director

NORTH CAROLINA: Danny Hampton, KM4OX, Director; Richard Woodbury, N4LMR, Vice-Director

SOUTH CAROLINA: Bill Jones, N4NMH, Director; No recommendation for Vice-Director

VIRGINIA: Wally Burkett, WA4KXV, Director; Don Williams, WA4K, Vice-Director

TENNESSEE: Johnny Wafford, WA4ETE, Director; Tim Berry, WB4GBI, Vice-Director

WEST VIRGINIA: Karl Morris, WB8GDY, Director; Dick Fowler, N8FMD, Vice-Director

Committee members included Ray Adams, Carter Cogle and Wayne Williams.

The nomination committee has made their suggestions to the membership for Directors and Vice-Directors for each SERA District (State).

According to SERA By-Laws, if there are no additional nominations for the office(s), the Committees recommendations will be elected automatically.

If a nomination comes "from the floor" -through membership and is valid, an election will be held for the particular office and state involved with two nominees.

Enclosed is a short "from the floor" nomination form. Any Full SERA member wishing to nominate someone, may do so by filling out this form properly and mailing it to the SERA Secretary, postmarked no later than November 30, 1990.

Nominees to be eligible for office in SERA, must be a Full Member, recognized in the February 1990 Repeater Journal, must not be an officer of any other coordinating group, and must have the endorsement of three other Full Members who must also sign the form. The person nominated must agree to serve if elected.

When mailing in the nomination to the Secretary, be sure to include a statement indicating the nominee(s) agree to be nominated, and will serve if elected. A short biographical sketch should be encluded for each nominee.

Remember, if no additional nominees are submitted to the Secretary, the recommendations of the SERA Nominating committee will stand for all 8 States, and new officials will be automatically elected.

All nominees by the Committee have been contacted, and will agree to serve the office if elected. All have also been certified to qualify for office on the SERA Board.

SERA DIRECTOR — VICE-DIRECTOR NOMINATION

## To SERA Secretary:

The below named person(s) are nominated to office(s) listed below. The persons nominated have been contacted and through their acceptance letter (enclosed) will serve if elected. The nominee is a FULL MEMBER, qualifying under the bylaws of SERA to hold office. It is understood that this nomination from the floor, signed by myself and three other eligible full members will be added to the nominating committee's list of nominees. If this "from the floor" nomination is the only one submitted for this office, that person shall be elected to the office. If this "from the floor" nomination is in addition to person(s) for the same office nominated by the nominating committee, an election will be held by written ballots mailed to every full member of appropriate SERA District(s).

**Office person is nominated for** ______________________________
(DIRECTOR OR VICE DIRECTOR)

**If more than one nominee, use xeroxed copy or simular sheet of paper.**

**Name of nominee** ______________________ **Call** ____________

**Address** ______________________________ **Phone** ________

**Is A representative of** ________________________ **repeater (a full member)**
(Call-City-Freq)

**Person has been contacted and has agreed to serve to best of his ability if elected to the office nominated (  ) Yes**

**Include brief Biographical sketch of nominee and his achievements in Amateur Radio and /or CVRA-SERA. (Use separate sheet of paper)**

**This nomination certified by me** ______________________ **Call** ________

**member of repeater** ________________, **a full member of CVRA-SERA.**

**Three other full members:**

______________________ **call** ________ **repeater** ________

______________________ **call** ________ **repeater** ________

______________________ **call** ________ **repeater** ________

*Other full members must sign their signature personally.*

Mail this form with attached required documentation to:
BARBARRA GREGORY, SERA Secretary, 8619 Smokerise Lane, Chattanooga, Tn. 37421.
(This mailing must be Postmarked no later than November 30.)

# Open Letter From Tennessee Director

*— by Jean V. Giesler, Jr., W4TYU*

In preparation for this letter, I checked back issues of the REPEATER JOURNAL to see just how long I had been an officer of the SouthEastern Repeater Association. It sure does not feel like six years as either Vice-Director or Director, but that's what the record says. It has been a very interesting and exciting period for me. I have seen the name change several times to reflect the broadening scope of the association. Mississippi, Georgia, and Kentucky have been added as new states. Very good relationships have been established with all of the bordering states. A letter of repeater coordination groups.

I have had the honor of representing the SouthEastern repeater Association at several national repeater coordinators meetings and have gained an appreciation of the diverse problems encountered over the United States.

The coordinator's job has been made much easier by the advent of database programs and the availability of inexpensive computers. It is a far cry for records on a bunch of index cards an manually measuring distances. On the other hand, the growth in the number of repeaters and the popularity of "packet radio" has resulted in increasing difficulty to locate open frequency pairs.

I retired a year ago and ever since I have tried to simplify my life. Therefore, I will not be a candidate for re-election. I want to express my thanks to all of those who have assisted me either actively or by cooperation. The job could not have been done with out you.

I urge your support of the slate of candidates proposed by the nominating committee. I know both of the gentlemen personally and can think of none better qualified for the position. Again thanks to all of the Tennessee repeater owners, operators and users who have contributed to the growth of the SERA and the successful coordination efforts.

*Become a part of*

# GREENSBOR

Get Ready For The

*10th Annual*

# GREATER GREENSBORO HAMFEST

**DATE:** November 24 & 25, 1990
**HOURS:** Sat. 9:00 A.M.-5:00 P.M. & Sun. 9:00 A.M.-3:00 P.M.
**LOCATION:** Franklin Blvd. National Guard Armory
**PRIZES:** 1st $1,000, 2nd $450, 3rd $150, 4th-6th $50
**Pre. Reg.:** $350
★ Many Other Valuable Prizes To Be Given Hourly
**TICKETS:** $4.00 Advance, $5.00 At The Gate
**FLEA MARKET:** Price Of Ticket & $2.00 (Outside)
**INSIDE:** Inside Tables — Sold Out For 1990!
**TAILGATERS:** Price Of Ticket & $2.00
**LADIES:** Mrs. Skinner, Mrs. Ayers and The Doll Lady will be with us again this year.
**SHOPPING:** Shuttle Bus Service will be provided to Four Seasons Town Centre Shopping Mall. Saturday Only!
**FCC EXAMS:** Will be given Saturday by Pre-Registration Only!
**TALK IN:** 146.760 (-.600), 145.250 (-.600), 146.520 (S)

**INFORMATION — REGISTRATION — TICKETS**
GREATER GREENSBORO HAMFEST
P.O. BOX 8252
GREENSBORO, N.C. 27419-0252
**PHONE:** (919) 852-9244

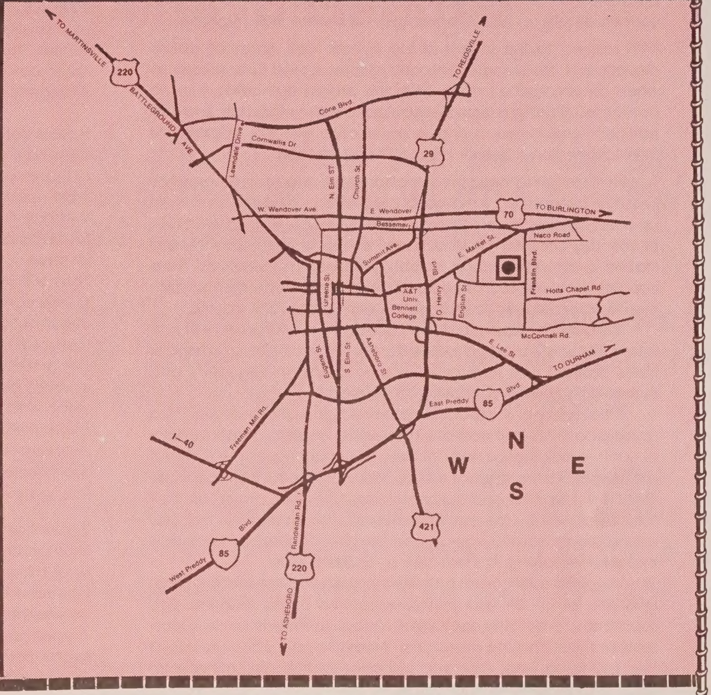
**Send In Your Advance Registration Now and Save $1.00 per ticket. Your Tickets Will be held at the gate for you to pick up upon arrival Saturday morning. SAVE $1.00 and be eligible for Pre-Registration Drawing. SEND IN THE COUPON WITH YOUR CHECK TODAY!!**

# O HAMFEST

## ARRL APPROVED HAMFEST

**• FCC EXAMS will be given Saturday by Pre-Reg. Only! Send comleted 610 & photocopy of current license. Also specify which elements you will be taking. Make check or money order for $4.95 and send to:**

**TEARC/VEC**
**Jim Williamson NQ4T**
**3504 Stonehurst Place**
**High Point, N.C. 27260**
**Phone: 919-841-7576**
**CUTOFF DATE IS NOV. 20TH**



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220
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Cornwallis Dr
TO REIDSVILLE
29
N. Elm ST
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Bessemer
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TO BURLINGTON
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Eugene St
S. Elm St
Asheboro St
E. Lee St
TO DURHAM
East Preddy
85
Blvd
Freeman Mill Rd
I-40
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E
S
421
Randleman Rd
West Preddy
Blvd
85
220
TO ASHEBORO

Please Pre-Register me for the Greensboro Hamfest, November 24-25, 1990.
Enclosed is my check for:

___ ☐ **Hamfest Tickets @ $4.00 ea** ........................ $ ______
___ ☐ **Flea Market Tables** (Inside) SOLD OUT ..... $ ______
___ ☐ **Outside Flea Market Space** (Unlimited) **$2.00** ...... $ ______

**Will your XYL or YL be attending our ladies day out? ☐YES ☐NO. Total** ........ $ ______

Monies must be received in Greensboro no later than November 20, 1990
Make all checks payable to the Greater Greensboro Hamfest.
Send form to: GGHamfest, P.O. Box 8252, Greensboro, N.C. 27419-0252

**Please Send S.A.S.E. - TNX**

*NAME* ______________________ *CALL* __________

*ADDRESS* ______________________________

*CITY* ______________ *STATE* ________ *ZIP* ________

# Some Help In Planning Emergency Preparedness

*— by Mark Williams, KJ4QQ*

Since being an amateur radio operator for nearly 10 years, I have had the opportunity to volunteer my time to help provide communications for many road races. In every one of these races, Murphy's Law was there to throw a wrench in the works and cause all of us to realize that something could have been done differently to make things go a whole lot smoother. I have kept in the back of my mind a list of suggestions that I feel will benefit others when called upon to provide their communications expertise for a race. It is my hope that this will enhance amateur radio's professional image in the eyes of the public that we work with in various situations. It is hoped my experiences may help you in the future!

1. Everyone that is going to be involved should meet to go over specific details no matter how big or how small they might be.
2. With respect to the layout of the course itself, know all police department, fire department, and rescue squad jurisdictions so when an emergency does arise, the proper authorities can be contacted. If using a repeater equipped with autopatch, know all pertinent emergency numbers associated with the appropriate jurisdictions. Sometimes 9-1-1 is all that is needed.
3. To save time going through other channels to report an emergency (such as autopatch), it is a good idea to have a ham operator set up a temporary station at the location of emergency dispatch (i.e., police department) or to actually set up a temporary mobile station in an ambulance or police cruiser. This way you have bypassed the dispatch stage and directed your emergency traffic directly to emergency personnel on or near the race course.

   It is only necessary to staff a ham radio operator with just one emergency unit of each jurisdiction as the ambulance will be in radio contact with their own units on their own frequency and therefore relay any information as needed.

   If the police or sheriff's department is being utilized as well, it is a good idea to have at least one ham with a law enforcement official of each jurisdiction as well. This way all of your bases are covered with respect to emergency calls or traffic problems. If this arrangement is not feasible and autopatch must be used, make sure that the dispatcher or operator who answers your call knows that you are an amateur radio operator. Tell the dispatcher your name and that you are talking to them from a mobile station.

   In addition, tell the dispatcher that you cannot hear him or her until you let up on your microphone. And in this situation, you should say "over" after each transmission, so there is no confusion between you and the dispatcher. Always remain calm and don't talk too loud into your microphone so the dispatcher can understand everything that you say.
4. It is also a good idea to keep all transmissions as brief as possible and limit comments to race business only. Say what you are going to say only once. If one of the checkpoints needs you to repeat traffic, he or she will ask you to do so. Don't spend one or two minutes saying something when you could say it in less time. Economy is efficiency. Also, if you have been asked for information on the progress of the race or whatever it may be, make sure that you acknowledge that station's question.
5. Make sure that your radio and antenna meet the physical demands of your checkpoint location (i.e., against a hill or down in a valley). If using a handheld, it is best to have some kind of gain antenna (such as a magnet-mount) to use instead of the "rubber duck" and have extra batteries or a way to run your rig on 12 volts DC (cigarette lighter etc.).
6. No matter how many races are run, whether one or four, a mobile ham station should follow up the **very last** race. This will ensure the safety of any racers lagging behind and will also help secure the course as well. This may be done with or without race officials in the vehicle. This step is very important because it would be terrible if a racer got injured and there was nobody around to radio for emergency assistance.
7. Have a definite method of identifying yourselves as amateur radio operators. A fluorescent ribbon color such as hot pink, neon green, or blaze orange is an excellent choice. It is also recommended to have a color different than what the race officials are wearing. For instance, if race officials are wearing blaze orange, then the hams participating should choose hot pink. Make sure that everyone involved in the race knows that the hams providing communications will be displaying the chosen color (race officials, police, rescue squad, etc.). This will help eliminate possible problems of identification and sometimes you will be treated as if you were George Bush himself. Finally, tie the strips of fluorescent ribbon to all the antennas on your vehicle for easy recognition and attach another piece to your body as an arm band. Agreeing on the same kind of cap to wear can work just as well as an armband. There are fluorescent colored caps out on the market that you can purchase at minimal cost, and I feel that a cap of some kind is more professional looking. Just get hats made with callsigns of all the hams working the race.
8. It would be a good idea for the participants to wear entry numbers both on the front and **back**. When a pack of 25-30 racers comes screaming down the road toward your checkpoint, it is **very** difficult to read off even one or two numbers for the race officials who might be interested in who is in the lead. If there will be different races run, a color scheme of some type would be helpful so as to tell the racers apart. This would help the checkpoints in determining when the last racer has passed his position.

Of course there will be other bloopers that I have never experienced, but that is Murphy's way of saying, "Let me see you get out of this one." When that happens, we as ham radio operators will always be ready for the challenge.

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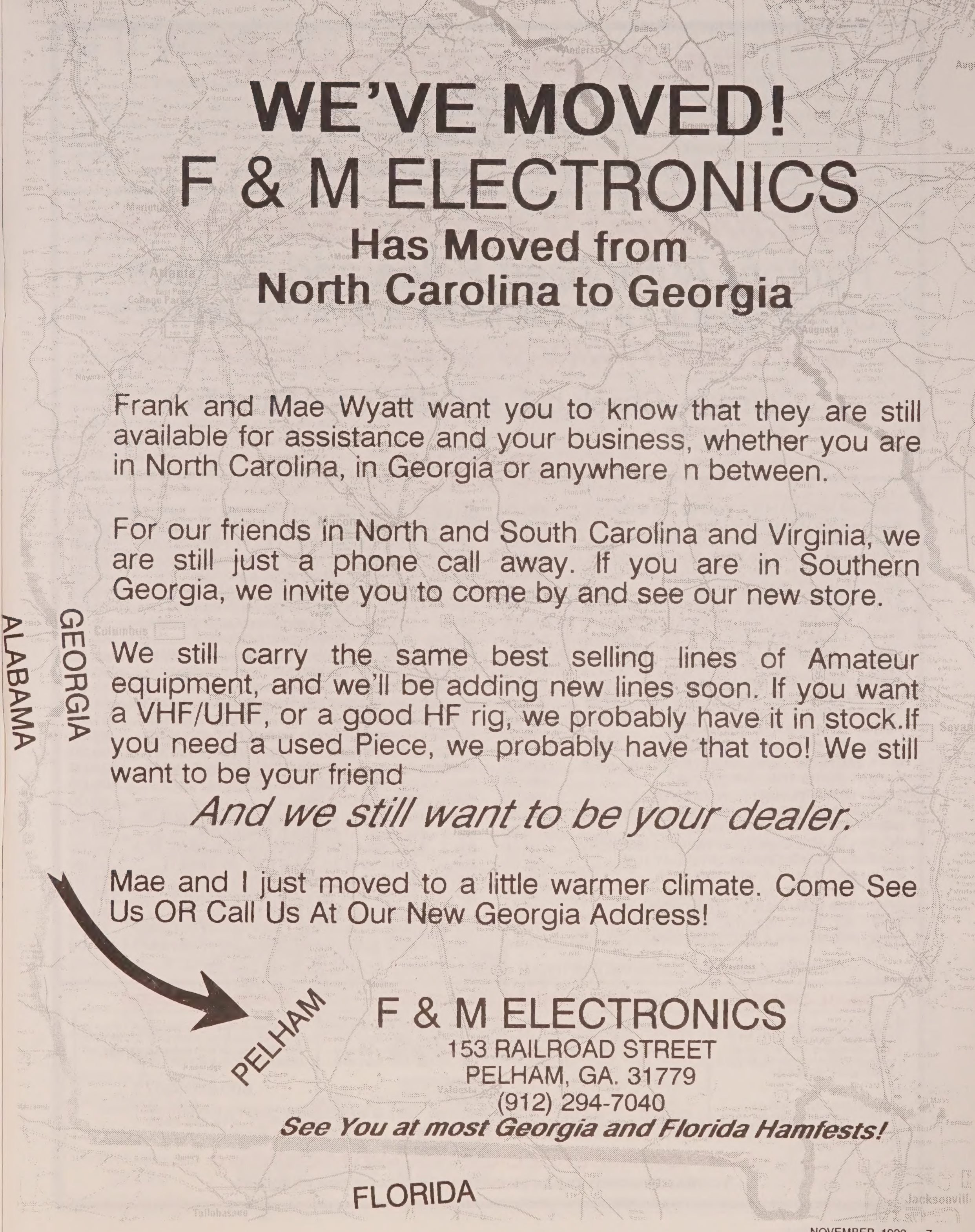

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# Is It Worth It?

*— by Ray Adams, N4BAQ*

One of the more frustrating factors I have encountered in Amateur Radio in the few years during which I have been trying to keep up with an item or two is the physical impossibility of keeping a CURRENT set of rules — Part 97 just plain keeps changing much more rapidly than the publishers can follow. Probably the most noteworthy accomplishment of Dick Bash's publishing career was to make available a subscription version of Part 97 in loose leaf form with replacement pages furnished periodically to revise the booklet to something closely resembling the current rules.

I have tried to interest more than one of the several publishers already active in the field of Amateur Radio in rejuvenating this publishing endeavor totally without any hint of success to date. Possibly their judgement is right and the market is not of adequate size to be profitable. That being the case, what should an Amateur Radio operator who really wants to perform within the Commission's Rules use as a guideline as to the contents of said rules?

And what about that poor fellow trying to upgrade his license? Depending on the individual pool involved, up to one third of the questions come straight from Part 97, but as of what date? Generally it is as of the date the question pool is released into public domain. It then must get printed into study guides and be used by the candidate in preparing for the upgrade attempt sometimes even for years before an opportunity for revision or updating presents itself.

In the case of our little VEC, (2½% or so of the national total test load), we stock printouts of completed test designs with virtually all our teams so that ANY change to a question pool requires replacing the entire element in the various and sundry locations. Now folks, that is a whole lot easier said than done. This is compounded even further when it is realized we seldom furnish a team fewer than four printed designs of each element. Changes of any portion of a test pool would cause similar problems for any VEC of any size, I would think. We are 6th in size, in a field of 18 when measured by number of elements administered, and I doubt if the others differ from us to any great degree.

Further, it quickly becomes apparent to any alert observer that the FCC rules are by far the most rapidly changing part of the material from which the written tests for Amateur Radio licensing are extracted. Thus I would submit that developing technology is simply an ADDITION to our knowledge of the conduct of Mr. Electron as he darts about his affairs, rather than a change in anything already known.

The Question Pool Committee (QPC), National Conference of Volunteer Examiner Coordinators, has just completed writing supplements to the question pools from which all American Amateur Radio license tests are extracted that will (hopefully) bring the questions in those pools into agreement with the rewritten Part 97 of the Commission's Rules effective September 1, 1989.

### WHAT CAN WE DO ABOUT IT?

I once asked the FCC if it was practical to have all changes to the Amateur Rules become effective on one common annual date, thinking that if all Rules changes could be made effective on only one annual date, we could immediately draft the new Rules sub-element to the question pools, making them effective, say, seven months after the FCC quit changing the rules for each year.

The FCC's reply was that in most cases the amateurs involved with requesting a rules change wanted it effective yesterday and, patience not being one of the virtues of Amateur Radio, they had always accommodated them as best they reasonably could. I can relate to that.

I know changing the tests as often as they should be changed was a problem even while the FCC was testing. As a matter of fact, I have every reason to believe the Volunteer Examining community is accomplishing even that portion of the VE program more efficiently than the FCC did it themselves, but I believe it could be done even better than we are now managing to accomplish, particularly so far as the rules questions are concerned.

Following the Fifth annual conference of Volunteer Examiner Coordinators in Gettysburg, Pennsylvania in the summer of 1989, the QPC issued a news release in which they announced their intention of writing such supplements and the expected dates by which they would place the material in public domain as well as implementation dates of the revised material or the date on which the Administering VE's should begin using the supplement in the examination room. We managed our part of the scenario in advance of the published schedule. We have the supplements in use in the test room for Elements 2 (Novice) and 3A (Technician) and the balance of the supplements in public domain to be implemented in the test rooms November 1, 1990. Changing those tests required our VEC to change all tests stocked with all teams in a period of months, an accomplishment we really were not prepared to perform and hope we don't find necessary to repeat. It imposed depreciation in its literal definition on certain computer printers I could mention!

I feel the QPC is performing at close to the maximum efficiency of which we are capable under the circumstances in which we find ourselves.

The newly rewritten version of Part 97 has already been changed more than once — expansion of the Repeater sub-band on six meters, changes in frequencies where beacons are authorized to operate on more than one band, relocating the Novice and Technician sub-band on 80 meters etc. — and we have not gotten all the supplements in use yet — and then of course there is NOCODE looking at us from right around the corner! Anticipated Rules changes on that item alone are expected to be of such proportions that I recommended, and the National Conference of VEC's accepted, the proposal that no question pool be ROUTINELY changed during the year in progress thereby leaving the QPC's talents available for timely response to any actions required by the Report and Order — if and when we get it! It now appears that the provisions for licensing the handicapped has claimed an apparently higher priority than NOCODE itself! Thus the QPC finds itself in an environment in which we can never catch up with reality unless positive action is taken in harmony with several ele-

*Continued On Page 11*

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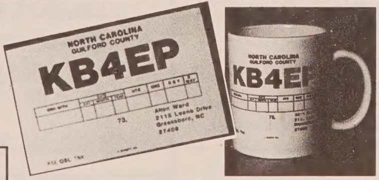

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## Is It Worth It?

*Continued From Page 9*

ments all acting in unison with that exact thought in mind.

I guess the whole point I am trying to make is that if we could keep the Rules questions in parallel with the effective version of Part 97, the remainder of the Question Pools would present very little in the way of stagnation problems.

There was a time when I advocated an annual supplement to ALL question pools containing Sub Element A (Rules) of all pools, and that these Sub Element A questions and answers not be included in the study guide prepared for each separate element. As a matter of fact, at least some study guide publishers simply refer to published rule books rather than present study material on Sub Element A questions in recognition of the fact that the rules are changing much more rapidly than the balance of the material. This principle might easily give rise to the existence of a SIXTH question pool dealing only with Part 97, maybe even subject to a routine annual revision.

### WHY DON'T WE DO A BETTER JOB?

Two things stop us. First, there is now no apparent pattern to the schedule by which changes to Part 97 are accomplished, and two, no one, to my knowledge at least, has ever even tried to have all rules questions in use in the exam room reflect the current rules of the exam day.

This sounds like the greatest thing for ham radio since the transistor, but, like almost everything in life, there is the flip side as well. Do we really want to wait possibly more than a year for the famous re-write of Part 97, Novice Enhancement, NOCODE, or even the special provisions for handicapped licensing, to become effective? Possibly we do in fact really NEED to move those beacon stations NOW. On the other hand, many of the changes to Part 97 are not so urgent that delaying an effective date to one common annual effective date would matter that much.

Should we have "minor" and "major" rules changes, with the "minor" changes biding their time to be effective and the "major" changes going into effect NOW?

Or possibly we could write a smaller pool than that specified above and still, in one of several manners, have it applicable to all classes of licenses.

That would "teach" the applicant a much more comprehensive portion of the Rules than is now the case, but wait, the rules he is learning from a study guide for purposes of passing a test are not necessarily the rules he is going to be expected to observe once he gains the desired license, thereby negating the benefits gained by broadening of the base of rules the applicant is expected to learn in order to pass the test. As a matter of fact, I would interpret that NOT to be in the best interests of Amateur Radio, in that the applicant has no real incentive to learn the rules actually in existence.

The bottom line is that I have reached the conclusion that the efficiency of the VE program as it exists today, as proud as I am of having helped it become the model program into which it has developed, is actually imposing a DISSERVICE on those entering or advancing their license standings within the fraternity. These are the very people for whom we should go the extra mile! I know that is strong language. I'm not at all proud of it, but I do believe it to be fact. On a take it or leave basis, I feel sure we would all take it, but let's see if we can't improve even the excellent atmosphere we have managed to create.

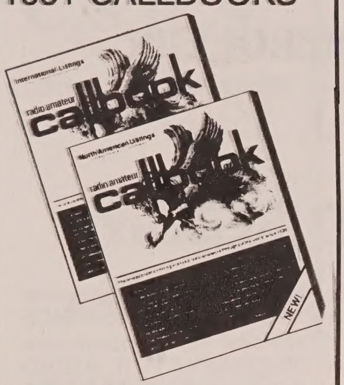
I know the VE's are authorized to supply answers and distractors to the questions which must be taken from the pool adopted by the VEC who coordinated the session — and the VEC's are, in compliance with §97.523, all using the question pools developed by the QPC. I also know the VE's choose not to alter the answers and distractors furnished by the QPC. As a matter of fact, I do not know of a single VE team that deviates from the answers and distractors "suggested" by the QPC and published by all study guide publishers. Many VE's feel that avoidable controversies would be more likely to happen if the VE's alter the material as published.

The end result is that the answers remain in use with the questions until formal action of the QPC changes them. I'm not all that sure that is a good situation, but I am quite sure that is the way it is happening when realism introduces itself as being of stronger influence than the idealism in which the idea of today's question pool scenario was conceived.

We are in fact using two sets of rules in this scenario. One set is expected to be learned by the applicant from the published study guides for purposes of passing the test for which he is preparing and the other is expected to be used in guiding the operator when he actually gets on the air.

There is no paralleling incentive for the applicant, or indeed the entirety of the amateur population to learn Part 97 in its truly current condition. The end result is an amateur population in full possession of a surprising amount of misinformation, often quoting rules "requirements" out of their own judgement as to what it "ought to be" or else insisting on compliance with language that disappeared years ago. If you think I'm wrong, go in on a busy frequency with the question "May I legally communicate with an unidentified station?" You will usually have touched off a lively discussion of surprising duration!

I don't KNOW we can get the cooperation of the FCC in this matter should it become apparent that we wanted to do something like this. Let me know what you think. Should we formally ask for such an environment, or are the benefits to be gained such that our efforts would be more productively used if they were directed at some other objective? Replies may be addressed to Ray Adams, N4BAQ, Callbook Address.



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## *Tennessee Tidbits*

It is almost taking a DXer to sort out the calls on two meters here in East Tennessee. KH2EJ and AH2FC along with AL7CX have been heard on the local machines. These are not a product of upgrading and new calls. The KH2 and AH2 calls are from Guam and were vacationing in East Tennessee. The AL 7 is a resident of this area. Add the calls of KM4, AC4, and others were have a field day trying to keep up with the users of the repeaters. I am sure that other areas have the same experience. I suggest that if you don't recognize a prefix, look up in the DXCC Countries list. Oh yes, by the time you read this there will be an Hawaiian call floating around. Twenty five years ago, I sold my Vivroplex "bug" to a youn ham and then lost track of him. Lo and behold last week I received a QSL card and a very nice note. He is now in the contruction business in Hawaii and is still hamming. His mother lives in this area and he will be visiting during the Thanksgiving season.

••••

I was monitoring the 13/73 machine last week and started listening to a very unusual QSO. Two motorcycle mobiles were talking to each other. They were about 100 raod miles apart. Andy, WOTAS was headed south on I-75 and going into the Carolinias. Dick, WB3CNC was enroute from Philadelphia on the first phase of a journey to the West Coast and back. Hopefully, Wayne has printed a portion of history else where in this issue.

••••

The 22/82 machine at Lake City is back on the air after a prolonged shutdown. Several new repeaters have appeared on the air and a number have changed locations and callsigns. Look in the directory for these changes. Folks, the two meter repeater spectrum is very close to full in several areas of Tennessee. I am attempting to use the few remaining slots for the smaller towns rural locations.

••••

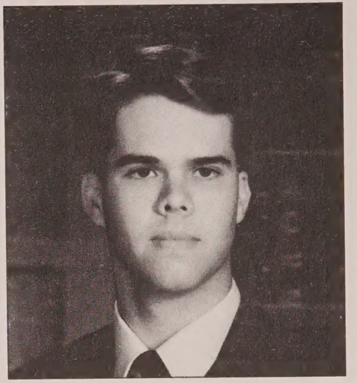
Oh yes I have had several requests for details on the "Dipple" antenna I use on HF. I am hoping to be able to round up a photographer and make a decent picture of a section of it. Perhaps in the January issue.

---

## Montgomery Hamfest, Nov. 24

The Montgomery Amateur Radio Club will Host the 13th annual Montgomery Hamfest in Garrett Coliseum at the South Alabama State Fair grounds. Free admission, free parking, all indoors, including the flea market. Flea Market set up begins at 6 A.M.; doors open to the public from 8 A.M. to 3 P.M. Central. FCC exams on site; code testing begins at 8:00 A.M. with all parts of written exams beginning at 9:00 A.M. Bring original and a copy of your current license, picture I.D. and $2.00. Talk-in on 146.24/84, call W4AP. Ragchew 146.32/92 (with phone patch, *up/#down), 147.78/18, 449.50/444.50. For more information phone Phil at 205-272-7980 (after 5:00 P.M. CST or any reasonable hour on weekends.

## KA4VXO Receives Full Air Force Scholarship



*Michael L. Wimmer, KA4VXO*

Michael L. Wimmer, KA4VXO — son of Van, WA4BIX and Rose, WA4TLH, brother of Allen, KA4VXN and Jeffrey, KA4VXM, grandson of the late Eva Wimmer, KB4DDX — has received a full four year Air Force ROTC Scholarship and will be attending VPI in Blacksburg, VA as a member of the Corp of Cadets. All are from the Roanoke County, Virginia area.

Michael is a graduate of Northside High School and lettered in wrestling two years. He was also active in 4H. He was a teen leader at many 4H camps and attended 4H State Conservation Camp.

He is a cadet member of the Roanoke Composite Squadron of the Civil Air Patrol which meets at Woodrum Field Airport the Roanoke Regional Airport. Michael earned his solo wings thru CAP programs and attended many CAP encampments and schools and achieved the rank of Lt. Colonel. He was selected to be a participant in the International Air Cadet Exchange and spent three weeks in Germany as a guest of the German Air Force.

Michael received a flight scholarship from the Daedalian Society (an organization of Air Force Pilots). He earned his private pilots license and Civil Air Patrol pilot wings with this scholarship before entering college.

Michael was an active amateur operator and a member of Army MARS, call AAT3EM. He was also well known in CAP radio nets.

## Radio Clubs Help Fight Lung Disease

*— by H.M. "Jack" Taylor, WA4JME*

The Mountain Empire Amateur Radio Society and the Bristol Amateur Radio Club provided communications for the 3rd Annual Bicycle Ride fund raising project for the American Lung Association of Tennessee.

The ride was held on July 15, 1990 at the Grape Patch Winery, Jonesboro, Tennessee. It offered both a 10 and 35-mile scenic route which hosted over 200 bike riders. The communications proved to be a very vital aspect of the ride and contributed to its success.

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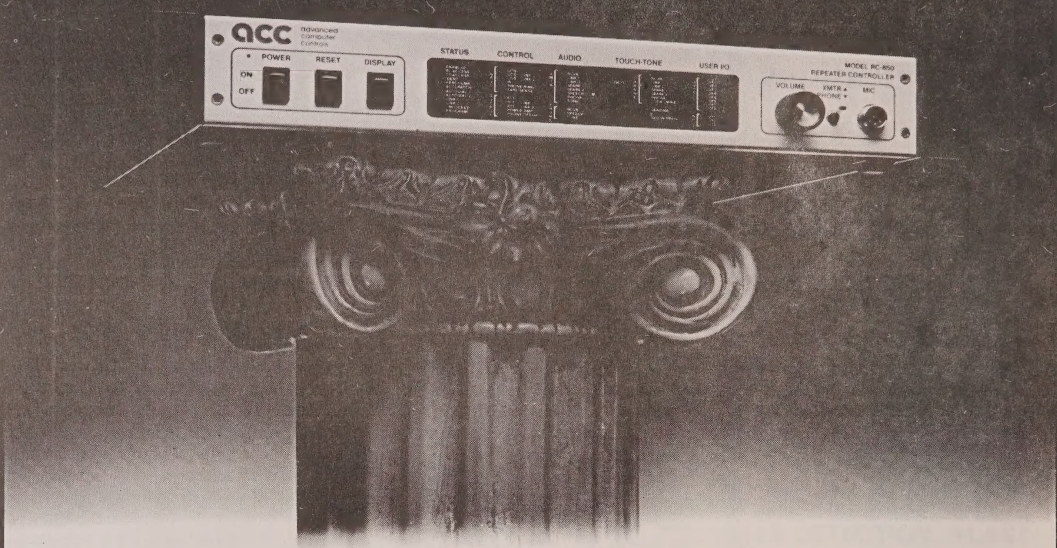

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# Virginia, North Carolina Turn Out Winners In 1990

Full Membership tallys for the SERA 8 States resulted in Virginia edging out North Carolina by 2/10 of a percent for the best overall percentage of Membership in one State. North Carolina however topped all other states, as well as Virginia in overall numbers of repeaters as Full Members.

The final tallys were: Virginia, 122 repeater Full Members for 68.2%, and North Carolina 157 Members for 68.0% Placing 3rd was West Virginia with 56.3% or 54 repeater members, followed by South Carolina with 53.8% for 50 repeater members. The rest of the states were below 50%.

It should be noted that Tennessee made great strides in member repeaters in 1990. Their 1990 total of 128 was 17 more than 1989 and 48 more than 1988. Georgia gained heavily in 1990 with 124 members, compared with 104 in 1989. This was Georgia's and Tennessee's biggest year.

North Carolina and Virginia as well as South Carolina declined slightly in overall membership in 1990, compared to 1989.

SERAs two new Districts, Kentucky and Mississippi fared well. Kentucky had 53 member repeaters for 42.7% and Mississippi rose to 36 repeater members for 36%.

Overall in the SERA 8 States, we had 724 Full Member repeaters, an all-time record for 53.2% of the 1361 machines on our database. SERA Membership has mailed data sheets to all of the 1361 repeater owners in early October, in hopes of getting a better start in data, and membership for 1991. All repeater owners are urged to send in their datasheets as soon as possible. The data received from them, will be forwarded to ARRL for their 1991-92 National Repeater Directory, and also for the National Coordinator's Database. An accompanying chart on this page, gives a complete breakdown of how each state in SERA has done since 1983.

```
SERA FULL MEMBERSHIP-1983 TO DATE     Ending 1990.                 10-23-90
======================================================================
STATE     FINAL  FINAL  FINAL  FINAL  FINAL  FINAL  FINAL   CURR    1990    STATE
           1983   1984   1985   1986   1987   1988   1989   1990   MBR %   RPTRS
======================================================================
N.C.        100     83    149    147    123    145    181    157   68.0%     231
S.C.         24     35     56     43     44     46     59     50   53.8%      93
VA.*         58     60     92     88     98     99    151    122   68.2%     179
W.VA         28     21     41     40     51     39     51     54   56.3%      96
TENN.        47     58     85     63     80     80    111    128   45.4%     282
GA.**         9     18    109    125    110    100    104    124   48.4%     256
KY***         1      4     18     21     19     15     48     53   42.7%     124
MISS***      --     --     --     --     --      3     12     36   36%       100
----------------------------------------------------------------------
TOTALS      268    280    554    598    532    527    717    724   53.2%    1361
======================================================================
* Total Virginia list does not include 62 repeaters which are included-
  T-MARC territory, North of Highway 33 and Latitude 38-deg.North. Also
  4 repeaters in the West Virginia Panhandle area, which are T-MARC.
** GA assumed SERA District Status in mid-1985.
***EKY assumed SERA District Status in 1985, Western Ky in late
   1989. District renamed Kentucky (KY) District.
***MS assumed SERA District Status in late 1989.
```

## SERA Net

The SERA News Net is back on the air, beginning its 15th year of operation. The Net, coordinated by the Editor of the Repeater Journal had been off during the Summer for vacation. When it shut down, some 35 repeaters were carrying the net.

The SERA News Net is presented for about 15 minutes each Wednesday evening at 9:30 P.M. local time. Anyone finding it, is cordially invited to listen. (NC, VA, WV, KY, OH & SC)

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# Letter From The Repeater Site

*— By Robin Rumbolt, WA4TEM*
*To: Bill Brazelton, WA4USW*
*(Printed Ctsy: Knoxville Rep. Group, Inc.)*

It's getting pretty cold up here, Bill. Do we have to do this now? Unh huh. . . well OK. Write this in the newsletter. About a week and a half ago I finished building both ends of the Lafollette link . On Wednesday, Sept. 20, Bill Adams KB4NEI, Todd Overbay KA4OAK, and I headed for points high in Lafollette to install it. I got off the tower just after dark. Connections were connected and we left. Shortly thereafter the link transmitter locked on and Todd graciously went up to the site the next night to take care of the problem. The Lafollette receiver is still not operational because of problems with the extra voter channel at the main site. I hope to have that fixed within a week.

A couple of weeks ago (Shelby weekend) we sustained some lightning damage at the main site. A trace was burned off the power amp board and IC's were damaged in the battery charger regulator, the RC-850, and the courtesy tone selector circuits. It must have been a granddaddy of a lightning bolt because the new digital voltmeter was burnt out and it was completely disconnected, turned off, and in the tool box at the time! Replacement parts are in and will be installed soon. If anyone notices that their autodialer or mailbox is gone let me know. Lightning has been known to do this in the past.

Last week Bill KB4NEI and I headed up the ridge to take down some unused antennas, do some cleanup, and install and align the new link receiver, equalizer, ID, and voter circuits. On the way, I announced over the air that we could use some help. To my pleasant surprise, Brad Dolan N4VHH, from Friendsville called and volunteered to help. Brad put in four or five hours of hard labor clearing brush and sorting parts. We sure appreciated his help! Bill and I put in about 13 hours up there, including Bill making 4 trips up the side of the hill, the last being in complete darkness! (The record is 5 trips in one day!)

The power amp is almost complete. I plan to activate only two of the four 150 Watt amp modules at a time. That way we can easily switch to the unused modules should the first pair be damaged. Repeater output power will be 250-300 watts or about 720 watts ERP.

Our old 220 MHz repeater is still alive and kicking down in Cleveland, Tennessee. Operated by KK4US, it is at 1400 ft. elevation and will soon have an autopatch connected. It has been coordinated for operation on the same frequency as we had it (224.32). So if you travel down that way give Van KK4US a call and let him know how you're receiving the repeater. I'm sure he'd be happy to hear from you.

Speaking of new repeaters, our own Bill Adams KB4NEI, besides busting his backside to help with our repeater, now has his own repeater on the air. The 444.000 MHz KB4NEI repeater is located on Roosevelt Mountain at Rockwood. It sports an RC-85 controller and sounds very much like ours.

If you're active on the 440 Mhz band, get in on the ground floor of this advanced repeater. Congratulations Bill!

Bill Allen WB4YHL, a permanent board member has recently resigned his position citing lack of time and inactivity on the air. I appreciate Bill's help over the years and his decision to vacate the position in favor of someone more active on the repeater. More about this at the picnic meeting.

One last note. . . This November marks the 15th anniversary of the establishment of our repeater, Knoxville's first autopatch repeater. We have come a long way from the VHF Engineering kits and Ringo Ranger antennas we started with. In fact we have had three totally different 2 meter repeaters, each replacing the one before it. We didn't lose them to lightning. We replaced them in favor of higher technology. Bill KN4N gave me a lot of credit earlier in this letter. I worked on it because it was fun and my hobby. But he didn't mention all the back breaking work that many of you have put in over the years. He didn't mention that I couldn't afford to do this on my own, and that you have provided the financial support necessary. So you see this isn't a one man repeater, this is a group effort. Technology, hard work, and fellowship, an unbeatable combination! And as the TV commercial goes. . . we thank you for your support! See you at the picnic.

Is that enough Bill? My feet are killing me! Can I come down now? Great! Oh. . uh. .Bill?. . . You forgot to unlock the door Bill. . . . . Bill?. . . . . Biiiilllllll!

---

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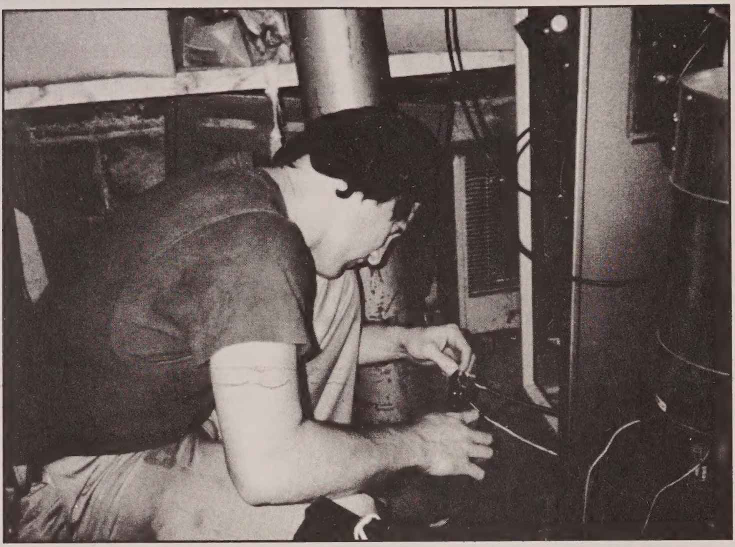
# A Repeater Where 150 MPH Winds Blow



Dan Renfro, WA4PXV re-wires his 6-meter system after moving it to Grandfather Mountain. The system has excellent coverage in Western North Carolina and Eastern Tennessee. The Grandfather Mountain location is over 5,000 feet above sea level.

*- by Dan Refro, WA4PXV*

It was a fairly normal Thursday evening last August. Since I didn't have to work the following day, I stayed up to my usual bedtime. At about 11:00 p.m., my friend and old school buddie, Lynnie Gregory, N4HGV called me on my repeater link system.

Lynnie got interested in Amateur Radio many moons ago with my help. He usually calls me every 2 or 3 months to let me know he is still alive. Before the story ends, Lynnie was sorry he ever called me that night.

Lets backtrack a bit. I had been planning on moving my 6-meter repeater system for about 6 months. I had looked into every managed site, and a few sites that weren't managed in the North Carolina mountains.

I had finally settled down to Linville Peak which is atop Grandfather Mountain, the Carolinas' top scenic attraction. For about a month and a half I had worried myself about how to attach the antennas on this high peak in excess of 5,000 feet, which has common 150 mph winds.

I got some expert help from Dwayne Ayers, N4AVU who works at Blue Ridge Electric Corp., in the Communications department. We pieced together a contraption from scrap metal that looked extremely rugged.

With much assistance from the Grandfather Mt. staff, the mounts were affixed to the side of the building at the top. Several days later, I got the antenna system mounted and all the feedline installed. With that nightmare out of the way, all I had to do was find a willing soul with a pickup truck and a strong back, and a free day.

This is where Lynnie came in. I arranged to have him come over the next day. He came early, eager to get going. After a hearty breakfast, we headed out. It was a beautiful day. Not a cloud in the sky.

We went up Anderson Mt. near Denver to retrieve the radio, duplexer and associated filters from my old site. We struggled and strained but finally got the heavy transmitter, power supply and duplexer for the 10-meter system loaded. I also climbed up the pole and removed one small antenna. Then we were ready to roll.

Two hours later, we were at the entrance of Grandfather Mt. Before heading up too far, I decide to feed my help, so we went to a new restaurant about half way up the mountain and had lunch.

When we came out, it was pouring rain, lightning and thunder. We waited a while, then decided to head for the top of the mountain. The rain was not quite as hard, but the lightening seemed quite "close" up there. Lynnie kind of got shook.

We examined our location and decided how the equipment was going to be placed. I then enlisted the assistance of some of the employees and we started moving in the stuff while it still rained. It took about half an hour, but we got it all in, wet and slippery, but it would dry off.

*Continued on page 19*

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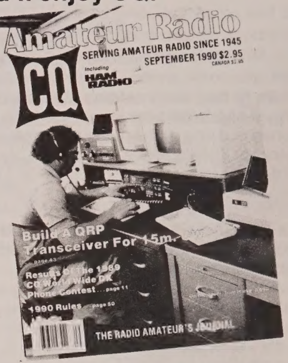

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## 150 MPH Wind Repeater

*Continued From Page 18*

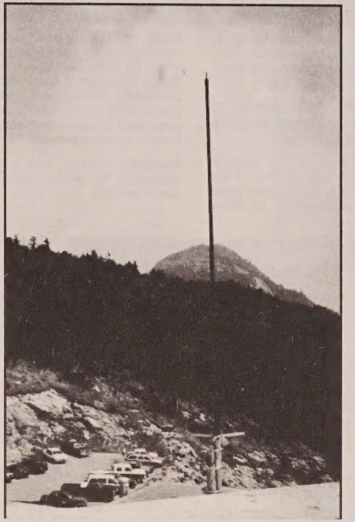
I began hooking up things, and running tests. The transmitter was putting out the full 130-watts, but we were only getting 20-30-watts out of the duplexer, so I did a quick tune up on it so it would work, until I could get back and do a better job. By the time we had hooked up everything, and done the emergency tuning, it was about 8:30, way past our dinner hour, and I knew I had to go to work early the next morning, so we decided to call it a day.

On the way home, my buddy Sam Kirby, WB4HAP from Knoxville gave me a call on the 6-meter system, the first time he had been able to work it. This made me feel good, especially for the quick tuning job we had to do. Lynnie and I got home late, tired, but happy. The system was working, and would hold until I could get back.

Several weeks later, I got time enough to go back for a day and overhaul everything, to make the system peak efficient. My 6-meter link system can be accessed on 144.42 and the UHF system on 440 mhz, by 147.45.

The system on Granddfather operates under the call of WA4PXV and has very good coverage in Western North Carolina and parts of Tennessee. In on 52.05, out on 53.05. Also input on 144.42. Each transitter has about 100-watts erp.

The UHF system is in on 448.5785 and out on 443.575. The 2M link is in on 147.45. You are invited to call-in anytime you are in the area, we'll be glad to talk.



The WA4PXV UHF antenna hangs off the Grandfather Mountain Scenic Park building, looking toward Boone. 150 mph winds are not uncommon on top of the mountain in Western North Carolina.

### Give A Repeater Journal Gift!

Give a gift of the Repeater Journal for Christmas. Fill out the Associate Membership Application on page 46, send it in with your $6.00 check. Include your name and call.

## COACH'S CORNER

— *by Jean Giesler, W4TYU*

I run an emergency and weather oriented net on a local repeater and at times have great difficulty with the call signs of the stations attempting to check in. When ever you give your callsign, give it distinctly and clearly so it may be copied without the other station calling for repeats. Many stations will state their calls too rapidly to be copied by a stranger. One I remember hearing was XX4goomp. (Prefix deleted for my protection) I asked for a repeat and was given fancy and cute (?) phonetics. Learn and use the standard phonetic list that appears in ARRL, military, and aviation publications.

Many of the repeater users also do an amount of DXing or are working on several certificate awards. Hence, these tips about QSLing. A one sided card is preferred by those that hande a lot of cards. It saves flipping the card several times when making out the return QSL. Spell out or abbreviate the month so that there is no conflict between the day and the month. e.g. 4 Sept 90 not 4-9-90 which could be read as April 9. Use the ARRL outgoing QSL service as well as the incoming bureau. Stop by the ARRL table at a Hamfest and pickup the sheets with the details on how to use them.

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Repeater owners are reminded to contact their local Frequency Coordinator (Director) for assistance in coordination, changes in their listings, or any other requirements.

# DISTRIBUTION OF REPEATERS BY FREQUENCY

This by-frequency index contains repeaters in the States of Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee, Virginia and West Virginia.

PLEASE NOTE: The letters column between the frequency and the city indicates suffixes of the repeater callsign.

This index is correct as of October 15, 1990.

**SERA Suggested FM Simplex**

146.40* 146.415* 146.43* 146.445* 146.46*
146.475* 146.49* 146.505* 146.52146.535
46.55 146.575 146.580 146.595 147.510
147.525 147.540 147.555 147.570 147.585
223.50 or up and down 20 khz channels
446.00 or up or down 25 khz channels

* Permitted unless causes interference to nearby repeater input.

**SERA Suggested Digital Simplex**

145.01 145.03 145.05 145.07 145.09
145.61 145.63 145.65 145.67 145.69
221.05 221.15 221.25 221.35 221.45
223.40 223.42 223.58

**NOTE:** Digital operators are reminded to check with local Digital Societies for which digital channels are available for various digital usage, in their particular area. Some channels are for exclusive use of LAN or BBS, etc. usage.

## 2 METERS

| | | | |
|---|---|---|---|
| 4.51 /5.11 | TUN | AUGUSTA | GA |
| | UOX | DOUGLASVILLE | GA |
| | HYE | MENDENHALL | MS |
| | RXG | SAURATOWN MT | NC |
| | JMT | CONWAY | SC |
| | Y | COOKEVILLE | TN |
| | SBX | GRAY | TN |
| | BOX | JACKSON | TN |
| | IJL | KNOXVILLE | TN |
| | ARK | NASHVLE/FAIRVIEW | TN |
| | YPE | RICHMOND | VA |
| | MCR | SALT ROCK | WV |
| 4.53 /5.13 | SEX | NEWNAN | GA |
| | VLP | VALDOSTA/TIFTON | GA |
| | YNF | AHOSKIE | NC |
| | CS | GREENWOOD/HODGES | SC |
| | CMY | CHATTANOOGA | TN |
| | OAK | LAFOLLETTE | TN |
| | VL | GALAX/LKOUT MT | VA |
| | FHE | BUCKHANNON | WV |
| 4.55 /5.15 | MM | ALBANY | GA |
| | AQL | ATLANTA | GA |
| | LI | MILLEDGEVILLE | GA |
| | NFK | CLARKSON | KY |
| | IWZ | PIKEVILLE | KY |
| | JTX | CHERRYVILLE | NC |
| | CVM | RANDLEMAN/GBO | NC |
| | OXE | INMAN | SC |
| | LWY | SUMMERTON | SC |
| | RJC | DECATUR-PONE KB | TN |
| | JXI | MEMPHIS | TN |
| | MJF | ALEXANDRIA | VA |
| | ARO | PETERSBURG | VA |
| | HDB | MARMET/BEE MT | WV |
| | FSE | MARTINSBURG | WV |
| 4.57 /5.17 | JBF | COOLIDGE | GA |
| | DIW | JONESBORO | GA |
| | PRH | HALLS GAP | KY |
| | ZQB | NEWTON/ANDSN MT | NC |
| | RVS | OXFORD | NC |
| | TUN | AIKEN | SC |
| | SK | LOUDON | TN |
| | BRN | MEMPHIS | TN |
| | LHO | MURFREESBORO | TN |
| | YVM | FAIRFAX | VA |
| | ZUA | NORFOLK | VA |
| | FRV | BECKLEY/BOLT | WV |
| 4.59 /5.19 | GIS | CARTERSVILLE | GA |
| | ULJ | PINE MT/HAMILTON | GA |
| | TEF | BOONEVILLE | MS |
| | BVW | MT MITCHELL | NC |
| | OTT | CARTHAGE | TN |
| | XX | JASPER | TN |
| | FAX | RICHMOND | VA |
| | YJJ | RICHWOOD | WV |
| | JGY | WHEELING | WV |
| 4.61 /5.21 | PSZ | TYRONE | GA |
| | U | DEANE | KY |
| | BOP | ERLANGER | KY |
| | WRE | POPLARVILLE | MS |
| | TQD | TRENTON | NC |
| | NEP | GASTON | SC |
| | BBB | KNOXVILLE | TN |
| | ARK | NASHVILLE | TN |
| | LIY | TRENTON | TN |
| | MS | KILMARNOCK | VA |
| | QOJ | ROANOKE/POOR MT | VA |
| | FEQ | HUNTINGTON | WV |
| 4.63 /5.23 | JEH | CONYERS | GA |
| | UJ | DALTON | GA |
| | COL | WAYNESBORO | GA |
| | PRH | LOUISVILLE | KY |
| | PRH | OXFORD | KY |
| | BFB | CHARLOTTE | NC |
| | RA | LAVERNE | TN |
| | DBB | BEDFD/APL ORCH | VA |
| | ORI | NEWPORT NEWS | VA |
| 4.65 /5.25 | BLQ | CLAYTON | GA |
| | BZJ | DALTON | GA |
| | GGD | GREENSBORO | NC |
| | URP | CHARLESTON | SC |
| | BRV | ERWIN | TN |
| | VT | MONTGOMERY | WV |
| 4.67 /5.27 | PN | WALESKA/PNLGMT | GA |
| | DZJ | WIGGINS | MS |
| | KNI | HENDSVL/BERWLW M. | NC |
| | BEA | RALEIGH | NC |
| | WZK | HENDERSONVILLE | TN |
| | CJX | SEV/SHIELDS MT | TN |
| | J | STAFFORD | VA |
| | VR | WYTHEVL/SAND MT. | VA |
| | OG | CRAIGSVILLE | WV |
| 4.69 /5.29 | DRQ | ATLANTA | GA |
| | AGA | FRANKFORT | KY |
| | PL | LAWRENCEBURG | KY |
| | ICN | PRESTONSBURG | KY |
| | L | VICKSBURG | MS |
| | BFB | CHARLOTTE | NC |
| | VCM | CHATTANOOGA | TN |
| | SQC | JOHNSON CITY | TN |
| | UVH | NASHVILLE | TN |
| | NDH | CHESAPEAKE | VA |
| | ZS | MARTINSVILLE | VA |
| | ZXP | GLENVILLE | WV |
| 4.71 /5.31 | CEK | COLUMBUS | GA |
| | JDR | STOCKBRIDGE | GA |
| | GOJ | CHATAWAH | MS |
| | ICX | LEXINGTON | NC |
| | GY | CHELSEA | SC |
| | PF | ROCK HILL | SC |
| | GRC | ATHENS | TN |
| | SC | JACKSON | TN |
| | ECD | LAFAYETTE | TN |
| | FSC | ALEXANDRIA | VA |
| | G | BECKLEY/LAYLAND | WV |
| 4.73 /5.33 | OGE | JONESBORO | GA |
| | CYR | GULFPORT | MS |
| | J | MT. AIRY | NC |
| | DFP | BAMBERG | SC |
| | DBJ | CUMBERLAND CITY | TN |
| | TEM | KNOXVILLE | TN |
| | DRL | MEM/FISHERVILLE | TN |
| | QQI | FARMVILLE | VA |
| | QC | PARSONS | WV |
| | M | WILLIAMSON | WV |
| 4.75 /5.35 | DOC | ATLANTA | GA |
| | FGQ | ROSSVILLE | GA |
| | RBL | LA GRANGE | KY |
| | AOS | CHARLOTTE | NC |
| | GVK | GREENVILLE | NC |
| | Y | HUMBOLDT | TN |
| | AZJ | BLAND | VA |
| | AQD | FALLS CHURCH | VA |
| | OZT | CHARLESTON | WV |
| 4.77 /5.37 | UA | AUGUSTA | GA |
| | IZF | JASPER | GA |
| | NNX | HATTIESBURG | MS |
| | AGN | N. WILKESBORO | NC |
| | MII | OXFORD | NC |
| | PPD | SHALLOTTE | NC |
| | GRC | KNOXVILLE | TN |
| | OG | NASHVILLE | TN |
| | P | GLOUCESTER | VA |
| | FWL | BECKLEY/EOC | WV |
| 4.79 /5.39 | HYB | GRIFFIN | GA |
| | NJ | MONROE/UCARS | NC |
| | AM | CHATTANOOGA | TN |
| | GZX | EASTVIEW | TN |
| | EPC | GREENEVILLE | TN |
| | DOR | LEBANON | TN |
| | EOM | WESTON | WV |
| 4.81 /5.41 | PME | ATLANTA/BELL | GA |
| | PXX | BRNSWK/JEKYLL IS | GA |
| | NON | COVINGTON | KY |
| | BKD | GLASGOW | KY |
| | IF | N.BILOXI/D'IBERV | MS |
| | XO | HIGH POINT | NC |
| | KNU | WILLIAMSTON | NC |
| | VIH | DOVER | TN |
| | TUO | GREENEVILLE | TN |
| | VIP | MEMPHIS | TN |
| | FHE | BUCKHANNON | WV |
| | HYX | LIBERTY | WV |
| 4.83 /5.43 | OLL | MACON | GA |
| | LCI | MARIETTA | GA |
| | ITL | SPARTA/GREEN MT | NC |
| | LB | COLUMBIA | SC |
| | YTU | BROWNSVILLE | TN |
| | UCE | COOKEVILLE | TN |
| | IUA | KNOXVILLE | TN |
| | SQT | RICHMOND | VA |
| | L | CHARLESTON | WV |
| | LG | MORGANTOWN | WV |
| 4.85 /5.45 | BOC | DECATUR | GA |
| | TX | LEXINGTON | KY |
| | PLY | CROWDERS MT | NC |
| | WTX | DURHAM | NC |
| | GRW | NEWPORT | NC |
| | SIR | BENTON | TN |
| | KO | COLUMBIA | TN |
| | KOG | MEMPHIS | TN |
| | E | SPRING HILL | TN |
| | FXC | GRANTSVILLE | WV |
| | SXZ | WELCH | WV |
| 4.87 /5.47 | UV | HINESVILLE | GA |
| | CLA | SWEAT MT/MARIETT | GA |
| | WMM | WASHINGTON | KY |
| | OIX | KINSTON | NC |
| | NC | SAURATOWN MT | NC |
| | DDK | MYRTLE BEACH | SC |
| | GBI | KNOXVILLE | TN |
| | OMO | MOUNTAIN CITY | TN |
| | ARK | NASHVILLE | TN |
| | EFJ | ARLINGTON | VA |
| | FG | KINGSTON/LICK KB | WV |
| 4.89 /5.49 | JA | AUGUSTA | GA |
| | RWS | CORDELE | GA |
| | QPL | MARIETTA | GA |
| | PXK | CLARKSON | KY |
| | CWF | NICHOLASVILLE | KY |
| | ZCZ | FRANKLIN | NC |
| | IKY | GIBSONVILLE | NC |
| | BWC | RALEIGH | NC |
| | ABW | RKY RDG/WALLACE | SC |
| | KKO | MCMINVL/SHT MT | TN |
| | KOG | MEMPHIS | TN |
| | MOP | BLUEFIELD | VA |
| | OHX | NEWPORT NEWS | VA |
| | MOP | BLUEFIELD | WV |
| 6.895/6.295 | RBS | HARTWELL | GA |
| | SM | MACON | GA |
| 6.01 /6.61 | CVY | COLUMBUS | GA |
| | BDP | WARNER ROBINS | GA |
| | KWV | CORBIN | KY |
| | KKG | LAUREL | MS |
| | SNI | GREENSBORO | NC |
| | JMS | NEW BERN | NC |
| | NYK | GRNVLE/CSRS HD | SC |
| | CMY | CHATTANOOGA | TN |
| | PCD | NASHVILLE | TN |
| | LSP | ABINGDN/BRMLY MT | VA |
| | GSP | CHESAPEAKE | VA |
| | WWQ | LYNCHBURG | VA |
| | MZI | GASSAWAY | WV |
| 6.025/6.625 | UPE | UNION CITY | GA |
| | JWP | VIDALIA | GA |
| | WO | PORT GIBSON | MS |
| | QWK | LAURINBURG | NC |
| | FJX | CHESTER | SC |
| | GBI | KNOXVILLE | TN |
| | ZQX | MARTIN | TN |
| | AVW | NEW MARKET | VA |
| | G | FLAT TOP/WINTRPL | WV |
| 6.035/6.635 | YCU | BETSY LAYNE | KY |
| 6.04 /6.64 | QGR | ATLANTA | GA |
| | LWT | AUGUSTA | GA |
| | FWD | CARROLLTON | GA |
| | GBG | WAYCROSS | GA |
| | UXJ | CAMPBELLSVILLE | KY |
| | ITL | JACKSON | MS |
| | NAY | MOOREVILLE | MS |
| | YAO | HENDERSONVILLE | NC |
| | DW | RALEIGH | NC |
| | NC | WINSTON-SALEM | NC |
| | FIQ | SUMTER | SC |
| | QYI | CRAB ORCHARD | TN |
| | NNE | MEMPHIS | TN |
| | NTM | NASHVILLE | TN |
| | WIC | FINCASTLE | VA |
| | IH | MARION | VA |
| | QEY | RICHMOND | VA |
| | EZR | HUNTINGTON/CHAS | WV |
| 6.055/6.655 | NFP | ATLANTA/MARIETTA | GA |
| | MNI | BOWLING GREEN | KY |
| | CEB | CONCORD/KANNAP. | NC |
| | VTX | ELIZABETH CITY | NC |
| | ABU | BROWNSVILLE | TN |
| | F | CHATT/SIGNAL MT | TN |
| | PDP | ALEXANDRIA | VA |
| | ISI | ALTAVISTA | VA |
| | BUC | UPPER TRACT | WV |
| 6.06 /6.66 | BKM | MACON | GA |
| 6.07 /6.67 | NSO | GAINESVILLE | GA |
| | EQL | JESUP | GA |
| | VHF | HAZARD | KY |
| | KBL | PRINCETON | KY |
| | CAX | BLUE MT | MS |
| | YGD | BURLINGTON | NC |
| | BKU | CHERRY MT | NC |
| | SJ | HALIFAX | NC |
| | U | ST. MATTHEWS | SC |
| | DKI | BRISTOL | TN |
| | BGW | LAFOLLETTE/WMT | TN |
| | NTM | NASHVILLE S.W. | TN |
| | HZS | BARREN SPRINGS | VA |
| | ZR | LEXINGTON | VA |
| | NTG | WILLIAMSBURG | VA |
| | JNU | RAVENSWOOD | WV |
| 6.085/6.685 | IWL | ADAIRSVILLE | GA |
| | UWN | FAYETTEVILLE | GA |
| | KHB | NATCHEZ | MS |
| | NBR | GRIFTON | NC |
| | O | STATESVILLE | NC |
| | CO | NEWBERRY | SC |
| | PIO | LENOIR CITY | TN |
| | HTA | VIENNA | VA |
| | FMD | CLARKSBURG | WV |
| 6.10 /6.70 | MM | ALBANY | GA |
| | OOM | JASPER | GA |
| | DOJ | MILLEDGEVILLE | GA |
| | TO | SAVANNAH | GA |
| | JO | GRAYSON | KY |
| | BDC | LOUISVILLE | KY |
| | YGM | UNION CITY (TN) | KY |
| | GY | BAY ST. LOUIS | MS |
| | LVA | GRENADA | MS |
| | DEJ | MERIDIAN | MS |
| | CID | DUNN | NC |
| | PAX | LANCASTER | SC |
| | KIE | KNOXVILLE | TN |
| | UOT | MANCHESTER | TN |
| | UFT | MEMPHIS | TN |

| | | | |
|---|---|---|---|
| | YGM | UNION CITY | TN |
| | WQS | DANVILLE/WHT OAK | VA |
| | D | NORFOLK | VA |
| | LQC | PENNINGTON GAP | VA |
| | XD | STAUNTON | VA |
| | JNU | RAVENSWOOD | WV |
| 6.115/6.715 | NVG | LAVONIA | GA |
| | ABZ | RINGGOLD | GA |
| | B | BEREA | KY |
| | TQY | GREENWOOD | MS |
| | GGN | MILLERS CREEK | NC |
| | KDC | SPRING LAKE | NC |
| | NEP | COLUMBIA | SC |
| | I | BLACKSBURG | VA |
| | TXE | STERLING | VA |
| | GL | SHERRARD | WV |
| 6.13 /6.73 | MM | ALBANY | GA |
| | NC | ATLANTA/SWEAT MT | GA |
| | TVE | BRUNSWICK | GA |
| | SWF | LOUISA | KY |
| | ZXK | VERSAILLES | KY |
| | OS | BILOXI | MS |
| | VZF | STARKVILLE | MS |
| | BWC | RALEIGH | NC |
| | EXU | SALISBURY | NC |
| | VNK | WILMINGTON | NC |
| | FKJ | N. AUGUSTA | SC |
| | BJY | SIMPSONVILLE | SC |
| | IOB | KNXVL/ENG MT | TN |
| | DAZ | MEMPHIS | TN |
| | WA | WATERTOWN | TN |
| | DHO | HAMPTON | VA |
| | AVZ | ALDERSON | WV |
| 6.145/6.745 | BKF | ATHENS | GA |
| | N | DILLON/PEE DEE | SC |
| | UP | COALFIELD | TN |
| | RCK | DYERSBURG | TN |
| | DY | ROANOKE/POOR MT | VA |
| | FMD | ELK GARDEN | WV |
| | U | PARKERSBURG | WV |
| 6.16 /6.76 | BOC | STONE MT | GA |
| | APS | VALDOSTA | GA |
| | NSY | FERN CREEK | KY |
| | HBM | LEXINGTON | KY |
| | CUW | PADUCAH | KY |
| | AXQ | FLORENCE | MS |
| | BVW | ASHVL/MT PISGAH | NC |
| | GGD | GREENSBORO | NC |
| | S | SWANSBORO | NC |
| | THL | WILSON | NC |
| | ILT | CHARLESTON | SC |
| | LSP | BRISTOL/HLSTN MT | TN |
| | PQP | NASHVILLE | TN |
| | TFZ | CHARLOTTESVILLE | VA |
| | ZIN | WILLIAMSBURG | VA |
| | VA | HUNTINGTON | WV |
| | CUL | MORGANTOWN | WV |
| | CR | WHEELING | WV |
| 6.175/6.775 | KE | MARIETTA | GA |
| | OCB | WRENS | GA |
| | PPM | MIDDLESBORO | KY |
| | JYH | LONG BEACH | NC |
| | DCD | TABOR CITY | NC |
| | JVO | PULASKI/MUSIC MT | TN |
| | T | WYTHEVILLE | VA |
| | BWZ | ELKINS | WV |
| 6.19 /6.79 | DMK | FOLKSTON | GA |
| | KOW | MOULTRIE | GA |
| | SEX | NEWNAN | GA |
| | VYX | SWAINSBORO | GA |
| | U | PAINTSVILLE | KY |
| | TYP | BILOXI | MS |
| | S | WEST POINT | MS |
| | LZD | CLINTON | NC |
| | QDK | SAURATOWN MT | NC |
| | FVV | ANDERSON/SAS MT | SC |
| | ILT | CHARLESTON | SC |
| | AM | CHATTANOOGA | TN |
| | ABR | JOHNSON CITY | TN |
| | SQE | NASHVILLE | TN |
| | SD | CHESAPEAKE | VA |
| | LBL | FAIRFAX | VA |
| | OQC | OAK HILL | WV |
| 6.205/6.805 | LT | MILLEDGEVILLE | GA |
| | NNE | GUTHRIE | KY |
| | EWG | FAYETTEVILLE | NC |
| | NOQ | GASTONIA | NC |
| | NNE | GUTHRIE (TN/KY) | TN |
| | HTI | COVINGTON | VA |
| 7.405/6.805 | AQS | CALHOUN/JASPER | GA |
| | HCY | MAGGIE VALLEY | NC |
| 6.22 /6.82 | MM | ALBANY | GA |
| | DOC | ATLANTA | GA |
| | HAO | LYONS | GA |
| | MBA | GREENVILLE | MS |
| | MZ | MAGEE | MS |
| | PZA | ROARING GAP | NC |
| | GMP | WILMINGTON | NC |
| | NYK | GRNVLE/PARIS MT | SC |
| | E | GREENBRIER | TN |
| | OAH | LAKE CITY | TN |
| | BS | MEMPHIS | TN |
| | NCM | WINCHESTER | TN |
| | WWB | GATE CITY | VA |
| | RKC | WINCHESTER | VA |
| | IFS | CHARLESTON | WV |
| 6.235/6.835 | OCB | THOMPSON | GA |
| | QCO | ASHEVILLE | NC |
| | UOR | NAGS HEAD/BODIE | NC |
| | USH | WADESBORO | NC |
| | IDG | WATERTOWN | TN |
| | DCX | GRUNDY/BIG A MT | VA |
| | UTN | LEESVILLE | VA |
| 7.435/6.835 | EV | DALONEGA | GA |
| | BPV | HIGH POINT | NC |
| 6.25 /6.85 | DVJ | DALLAS | GA |
| | R | LAGRANGE | GA |
| | QWI | WARNER ROBINS | GA |
| | CLL | BOWLING GREEN | KY |
| | IV | PIKEVILLE | KY |
| | VNO | BAY ST. LOUIS | MS |
| | JMD | BUDE | MS |
| | BWW | CLEVELAND | MS |
| | MFK | IUKA | MS |
| | LWC | KOSCIUSKO | MS |
| | CYP | GOLDSBORO | NC |
| | MDW | HICKORY/BRT. MT | NC |
| | YFT | REIDSVILLE | NC |
| | ULH | FLORENCE | SC |
| | KJH | GTLBG/COVE MTN | TN |
| | KOG | MEMPHIS | TN |
| | PCD | NASHVILLE | TN |
| | POX | PORTSMOUTH | VA |
| | ZBP | STAUNTON | VA |
| | BO | BECKLEY/FLAT TOP | WV |
| | L | BUCKHANNON | WV |
| 6.265/6.865 | DKY | MADISON | GA |
| | YF | BIG KNOB/GREY CT | SC |
| | G | FAYETTEVILLE | TN |
| 7.465/6.865 | DWU | ELLISVILLE | MS |
| | ZRS | WAXHAW | NC |
| | E | MOUNTAIN LAKE | VA |
| 6.28 /6.88 | TOM | COLUMBUS | GA |
| | TDL | EVANS | GA |
| | IUD | MARIETTA | GA |
| | NKL | QUITMAN | GA |
| | HBB | SAVANNAH | GA |
| | OAU | LOUISVILLE | KY |
| | U | MAYTOWN | KY |
| | AI | SOMERSET | KY |
| | NNZ | JACKSON | MS |
| | AAY | PASCAGOULA | MS |
| | TQD | RALEIGH | NC |
| | NYR | SHELBY | NC |
| | AVU | COLUMBIA | SC |
| | CYZ | BRISTOL | TN |
| | ETE | MEMPHIS | TN |
| | TOA | NASHVILLE | TN |
| | SKH | OAK RIDGE | TN |
| | CYZ | BRISTOL | VA |
| | ZBE | RICHMOND | VA |
| | PDL | SALEM | VA |
| | CQV | SO. CHARLESTON | WV |
| 6.295/6.895 | JBV | INDEPENDENCE | KY |
| | YFF | MADISON | NC |
| | RAG | STANARDSVILLE | VA |
| | KXV | VIRGINIA BEACH | VA |
| 6.30 /6.90 | WVH | IRVINGTON | KY |
| | SP | FAIRMONT | WV |
| 6.31 /6.91 | HIG | CLEVELAND/LONG | GA |
| | HYB | GRIFFIN | GA |
| | GFY | MOREHEAD | KY |
| | VV | HERNANDO | MS |
| | OCM | NATCHEZ | MS |
| | ZGQ | AHOSKIE | NC |
| | MOE | ASHVL/SPIVEY MT | NC |
| | YZF | FAYVLLE/CFARS | NC |
| | IZM | LEXINGTON | NC |
| | BWZ | WHITE HALL | SC |
| | GZX | CLEVELAND | TN |
| | DQU | SAVANNAH | TN |
| | YXA | SHORT MTN | TN |
| | AXH | CHASE CITY | VA |
| | TUE | MT.LAKE/BALD KNB | VA |
| | HLF | TYSONS CORNER | VA |
| | ULB | MCMECHEN | WV |
| 6.325/6.925 | ASI | COVINGTON | GA |
| | PJR | JESUP | GA |
| | BEJ | ELIZABETHTOWN | KY |
| | VOJ | CORINTH | MS |
| | TFZ | CHARLOTTESVILLE | VA |
| | GJG | DANVILLE(DCC) | VA |
| | OGY | PRINCETON/PIPEST | WV |
| 6.34 /6.94 | N | AUGUSTA | GA |
| | VO | ROME/MT. ALTO | GA |
| | RVB | WRIGHTSVILLE | GA |
| | SN | ASHLAND | KY |
| | WZH | GLASGOW | KY |
| | AUZ | LEXINGTON | KY |
| | NTB | MURRAY | KY |
| | SBK | JACKSON | MS |
| | JMD | MCCOMB | MS |
| | DLH | BURGAW | NC |
| | BFB | CHARLOTTE | NC |
| | BFT | DURHAM | NC |
| | ACY | MANTEO/WANCHESE | NC |
| | ZAS | MT AIRY-RTTY | NC |
| | IQQ | GREENVILLE | SC |
| | GBI | KNOXVILLE | TN |
| | BN | MEMPHIS | TN |
| | PCD | NASHVILLE | TN |
| | AKZ | ABINGDON | VA |
| | UMI | HAMPTON | VA |
| | ZA | RICHMOND | VA |
| | AP | ROANOKE | VA |
| | VKB | SUMMERSVILLE | WV |
| | JN | WEIRTON | WV |
| 7.54 /6.94 | CSW | NEW MARTINSVLLE | WV |
| 6.355/6.955 | KIN | PERRY | GA |
| | PRE | ROCKY TOP MT | GA |
| | OCP | RABBIT HASH | KY |
| | NS | RINEYVILLE | KY |
| | ULA | ROCKINGHAM | NC |
| | E | ONEIDA PEAK/BLF | VA |
| 6.37 /6.97 | OD | ATLANTA | GA |
| | HBB | SAVANNAH | GA |
| | DPP | HENDERSON | KY |
| | MJM | MERIDIAN | MS |
| | KYB | PASCAGOULA | MS |
| | ZAS | MT AIRY | NC |
| | JQ | SMITHFIELD | NC |
| | SZ | ANDERSON | SC |
| | ISM | FLORENCE | SC |
| | TRC | KNGSPT/BAYS MT | TN |
| | MWQ | MCMINNVILLE | TN |
| | BEZ | MEDINA | TN |
| | SKH | OAK RIDGE | TN |
| | FPM | MANASSAS | VA |
| | WRN | MIDDLEBROOK | VA |
| | KXV | VIRGINIA BEACH | VA |
| | E | LOGAN/WARD RK MT | WV |
| | CRW | PARKERSBURG | WV |
| 6.38 /6.98 | BEJ | ELIZABETHTOWN | KY |
| 6.385/6.985 | I | AUGUSTA | GA |
| | HHH | ELLIJAY/TALONA M | GA |
| | TOV | PRESTON | GA |
| | UUB | ST. MARYS | GA |
| | UER | WARM SPRINGS | GA |
| | DMT | SENATOBIA | MS |
| | OGB | ALBEMARLE | NC |
| | PVE | MARION | NC |
| | ESG | MT PLEASANT | SC |
| | IY | FRANKLIN | TN |
| | CA | ROANOKE/POOR MT | VA |
| | EIV | CHARLES TOWN | WV |
| 6.40 /7.00 | NNO | ATLANTA | GA |
| | UFH | CORINTH | MS |
| | QFX | WATER VALLEY | MS |
| | AZA | HIGH POINT | NC |
| | FVO | JACKSONVILLE | NC |
| | YLT | MARION | SC |
| | YXZ | PICKENS | SC |
| | AZQ | KNOXVILLE | TN |
| | ZJM | MEMPHIS | TN |
| | HMT | SUFFOLK/GASBURG | VA |
| | GDY | ST ALBANS | WV |
| 7.60 /7.00 | WAU | ELKHORN CITY | KY |
| | LR | SHELBYVILLE | KY |
| | BX | COLUMBUS | MS |
| | KMG | BLOUNTVILLE | TN |
| | ZOK | CHATT/SIGNAL MT | TN |
| | SGA | CLARKSVILLE | TN |
| | ZR | TERRA ALTA | WV |
| 6.415/7.015 | M | LYNCHBURG | VA |
| | AXO | NORTON/HIGH KNOB | VA |
| 7.615/7.015 | DT | BONAIRE | GA |
| | FOW | CLEVELAND/LONG | GA |
| | UM | MIDWAY | GA |
| | FDK | LEXINGTON | KY |
| | JHK | MONTICELLO | MS |
| | KPF | LK NORMN/CLT | NC |
| | YP | SELMA | NC |
| | UMU | SUMTER | SC |
| | JVV | LEBANON | TN |
| | KS | ROCKWOOD | TN |
| | YGM | UNION CITY | TN |
| | LNT | FREDRICKSBURG | VA |
| 6.43 /7.03 | D | LAUREL | MS |
| | YTZ | ROCK HILL | SC |
| | MVR | LEXINGTON | TN |
| | JST | RICHMOND | VA |
| 7.63 /7.03 | REI | ATLANTA/AIRPORT | GA |
| | ZVL | HOPKINSVILLE | KY |
| | PJZ | LOUISVILLE | KY |
| | A | OWENSBORO | KY |
| | LDD | OCEAN SPRINGS | MS |
| | GG | GREENSBORO | NC |
| | DTS | ROANOKE RAPIDS | NC |
| | FOF | BARNWELL | SC |
| | HOG | N. MYRTLE BEACH | SC |
| | YGI | COLLIERVILLE | TN |
| | NIQ | FAYETTEVILLE | TN |
| | PRQ | MORRISTOWN | TN |
| | BLD | WAYNESBORO | VA |
| | IT | MULLINS/HRNDN MT | WV |
| | ECC | ST MARYS/BENS R | WV |
| 6.445/7.045 | FLR | FAYETTEVILLE | NC |
| | CNS | ROB/JOANNA BLD | NC |
| 7.645/7.045 | TYM | METTER | GA |
| | NFA | WATKINSVILLE | GA |
| | VF | GRETHEL | KY |
| | JRL | STATSVL/ASBRY MT | NC |
| | HKZ | COOKEVILLE | TN |
| | AYN | NASHVILLE | TN |
| | RAG | STAUNTON/EL. KB | VA |
| | SBC | VIRGINIA BEACH | VA |
| 6.46 /7.06 | CQ | CHARLOTTE | NC |
| | LBM | VOLENS | VA |
| | PNC | PRINCETON | WV |
| 7.66 /7.06 | DDI | MACON | GA |
| | CLA | ROSWELL | GA |
| | UCJ | THOMASVILLE | GA |
| | WQ | PADUCAH | KY |
| | K | HATTIESBURG | MS |
| | LED | MACO | NC |
| | VFR | SUMTER/SHAW | SC |
| | MQQ | MEMPHIS | TN |
| | QEB | SHELBYVILLE | TN |
| | UG | VIKING MT/GRNVLE | TN |
| | ECM | CHESTERFLD CO | VA |
| | KNM | POINT PLEASANT | WV |
| 7.67 /7.07 | NMC | LOUISVILLE | KY |
| 6.475/7.075 | GBS | MORGANTON | GA |
| | WRP | GIBSONVILLE | NC |
| 7.675/7.075 | JXR | LAWRENCEVILLE | GA |
| | TLP | OWINGSVILLE | KY |
| | Y | JACKSON | MS |
| | HBQ | BURLINGTON | NC |
| | L | NEWTON | NC |
| | GBI | KNOXVILLE | TN |
| | PNT | WAYNSBR/BEAR DEN | VA |
| | QC | MORGANTOWN | WV |
| 7.69 /7.09 | CVE | ST SIMONS ISL | GA |
| | ZAC | HARLAN | KY |
| | YK | PHELPS | KY |
| | DSN | AMORY | MS |
| | MRS | NEW HEBRON | MS |
| | GDF | GREENVL/ESTN NC | NC |
| | RDN | ORANGEBURG | SC |
| | JLA | SPARTANBURG | SC |
| | ATI | GERMANTOWN | TN |
| | NLP | JAMESTOWN | TN |
| | VL | GALAX/BRIRP MT | VA |
| 7.705/7.105 | YSB | ATLANTA | GA |
| | D | STATESBORO | GA |
| | FGA | MARION | KY |
| | HXG | WAYNESBORO | MS |
| | JCK | MONROE | NC |
| | GHH | MOUNTAIN HOME | NC |
| | TC | HENDERSON | TN |
| | JBJ | BEDFORD | VA |
| | JTH | MT STORM | WV |
| | Z | SPENCER | WV |
| 6.09 /7.11 | ZLR | LOGAN | WV |
| 7.72 /7.12 | MM | ALBANY | GA |
| | S | AUGUSTA | GA |
| | CMA | CEDARTOWN | GA |
| | U | BENTON | KY |
| | ASZ | WINCHESTER | KY |
| | N | ACKERMAN | MS |
| | REW | GAST/SPCR MT | NC |
| | IKY | GIBSONVILLE | NC |
| | EWL | ROCKY MOUNT | NC |
| | JMT | MYRTLE BEACH | SC |
| | ZYX | COLUMBIA | TN |
| | GMV | MEMPHIS | TN |
| | EAJ | OAK RIDGE | TN |
| | FAF | CULPEPER | VA |
| | DKM | BRIDGEPORT | WV |
| 7.735/7.135 | BZJ | DALTON | GA |
| | FRM | MILLEDGEVILLE | GA |
| | Y | VALDOSTA | GA |
| | LRQ | PETAL | MS |
| | CJS | BREVARD/RICH MTN | NC |
| | ABW | CHERAW | SC |
| | EDS | ALAMO | TN |
| | AZJ | PEARISBURG | VA |
| | HB | RICHMOND | VA |
| 7.75 /7.15 | TFW | ALBANY | GA |
| | BYK | CUMMING/SAWNEE | GA |
| | III | PEARL | MS |
| | VLY | MORGANTON | NC |
| | TQD | RALEIGH | NC |
| | BJM | MONCKS CORNER | SC |
| | SDT | SIMPSONVILLE | SC |
| | PCD | NASHVILLE | TN |
| | EAJ | OAK RIDGE | TN |
| | QJZ | JEWELL RIDGE | VA |
| | SVR | ST ALBANS | WV |
| 7.765/7.165 | KIN | FORSYTH | GA |
| | MWA | DICKS KNOB | KY |
| | HBM | LEXINGTON | KY |
| | RIS | HIGH POINT | NC |
| | VIA | GREENWOOD | SC |
| | CEX | PURYEAR | TN |
| | CTF | NEWPORT NEWS | VA |
| | FJT | WARRENTON | VA |
| 7.78 /7.18 | BMA | AUGUSTA | GA |
| | NHW | BALDWIN | GA |
| | BI | SYCAMORE | GA |
| | H | BAXTER | KY |
| | RBI | DIXON | KY |
| | CN | LOUISVILLE | KY |
| | UDQ | INVERNESS | MS |
| | EJJ | SANFORD | NC |
| | SFK | TRYON/MELROSE MT | NC |
| | CTJ | WILMINGTON | NC |
| | NAT | DORCHESTER | SC |
| | SC | FT MILL/CAROWND | SC |
| | KOG | MEMPHIS | TN |
| | PCD | NASHVILLE | TN |
| | DES | POLK CTY/OSWALD | TN |
| | Z | PKS KB/PULASKI | VA |
| | NMT | LEON | WV |
| 7.795/7.195 | SMX | ATLANTA | GA |
| | UCJ | CAIRO | GA |
| | NIN | LENOIR | NC |
| | WB | MURPHY | NC |

|  |  |  |  |
|---|---|---|---|
|  | RTS | LYNCHBURG | VA |
|  | H | HORSEPEN MT | WV |
| 7.81 /7.21 | TF | CONYERS | GA |
|  | TO | SAVANNAH | GA |
|  | BUZ | GREENSBORO | NC |
|  | MSD | WHITEVILLE | NC |
|  | AVU | LITTLE MT. | SC |
|  | WS | COOKEVILLE | TN |
|  | SBX | GRAY/HOLSTON MT | TN |
|  | WKZ | JACKSON | TN |
|  | IWG | MCLEAN | VA |
|  | TC | CHARLESTON | WV |
| 7.825/7.225 | ZUN | JEFFERSON | GA |
|  | LVY | SUMMERVILLE | GA |
|  | NFK | LITCHFIELD | KY |
|  | WMH | OLIVE BRANCH | MS |
|  | WTX | HILLSBOROUGH | NC |
|  | DTW | SANTEE | SC |
|  | OAH | MORRISTOWN | TN |
|  | C | HARRISONBURG | VA |
|  | SDC | YORKTOWN | VA |
|  | NRK | PRINCETON | WV |
| 7.84 /7.24 | NFG | IRWINTON | GA |
|  | DII | ASHLAND | KY |
|  | AVE | FAIR DEALING | KY |
|  | AI | FRANKFORT | KY |
|  | NAR | MAYFIELD | KY |
|  | R | TUPELO | MS |
|  | NIW | CARTHAGE | NC |
|  | ACP | EDEN | NC |
|  | PBG | FOREST CITY | NC |
|  | GHZ | FRANKLIN | NC |
|  | BAL | HILTON HEAD | SC |
|  | AC | LANCASTER | SC |
|  | BKY | GALLATIN | TN |
|  | OG | LUNENBURG CT.HSE | VA |
|  | FQR | WOODBRIDGE | VA |
| 7.855/7.255 | KDT | ATLANTA | GA |
|  | CO | HIGHLAND HEIGHTS | KY |
|  | AV | ASHEBORO | NC |
|  | KNI | HENDSVL/PENIC/MT | NC |
|  | SI | PETROS/FRZ HD MT | TN |
|  | TVS | ACCOMAC | VA |
|  | CYZ | DANTE | VA |
|  | VAZ | MARTINSBURG | WV |
| 7.885/7.255 | BZU | NASHVILLE | TN |
| 7.87 /7.27 | VBH | AMERICUS | GA |
|  | KWT | LOUISVILLE | KY |
|  | GEL | PIKEVILLE | KY |
|  | USN | ABERDEEN | MS |
|  | SXK | VICKSBURG | MS |
|  | H | BENSON | NC |
|  | SM | WAYNESVILLE | NC |
|  | LET | CHARLESTON | SC |
|  | JRJ | SENECA/LONG MT | SC |
|  | BKY | GALLATIN | TN |
|  | OWI | MEMPHIS | TN |
|  | TMC | PINSON | TN |
|  | IKL | GUM SPRING | VA |
|  | S | SCOTT DEPOT | WV |
| 7.885/7.285 | EVD | ASHBURN | GA |
|  | VBX | ATLANTA/GPCO | GA |
|  | FGA | MARION | KY |
|  | EZN | COLUMBIA | MS |
|  | ADM | AIKEN | SC |
|  | DCD | MYT BEA/BRKSVLLE | SC |
|  | MGM | ROCKY SPUR | SC |
|  | PUX | PIKEVILLE | TN |
|  | L | MARTINSVILLE | VA |
|  | HON | SPRUCE KNOB | WV |
| 7.90 /7.30 | ACY | PERRY | GA |
|  | YSV | ROME | GA |
|  | U | SALYERSVILLE | KY |
|  | SJH | SPRINGFIELD | KY |
|  | LNY | MAGEE | MS |
|  | YJG | JEFFERSON | NC |
|  | MZP | RED SPRINGS | NC |
|  | OMV | TUCKASEGEE | NC |
|  | LWS | MT. PLEASANT | SC |
|  | BBB | KNOXVILLE | TN |
|  | ADT | MEMPHIS | TN |
|  | ZSA | NASHVILLE | TN |
|  | SPS | FRANKLIN | VA |
|  | ZR | LEXINGTON | VA |
|  | TSC | WINCH/BLUEMONT | VA |
|  | NSL | HARRISVL/PENSBRO | WV |
| 7.915/7.315 | REB | TWIN CITY | GA |
|  | IL | SALEM | KY |
|  | RBW | WALKERTOWN | NC |
|  | UZT | N. SPARTANBURG | SC |
|  | O | MCNAIRY | TN |
|  | HFH | ALEXANDRIA | VA |
|  | SAD | HARRISONBURG | VA |
|  | MR | CLARKSBURG | WV |
| 7.92 /7.32 | HWQ | GRUNDY | VA |
| 7.93 /7.33 | BXO | LAGRANGE | GA |
|  | DIP | TOCCOA | GA |
|  | KWH | ASHLAND | KY |
|  | KNE | MT. STERLING | KY |
|  | IUI | PROVIDENCE | KY |
|  | EPP | PHILADELPHIA | MS |
|  | LPL | FAYVLLE/FT BRAGG | NC |
|  | K | LENOIR/HIBRITN | NC |
|  | NUY | COLUMBIA | SC |
|  | VXW | COVINGTON | TN |
|  | WYI | ROCKWOOD | TN |
|  | DUM | LEXNGTN/ROCK MT. | VA |
|  | ZIP | WARSAW | VA |
| 7.945/7.345 | NEQ | ATLANTA/MARIETTA | GA |
|  | PJR | JESUP | GA |
|  | IZD | LYNCH/BLACK MT | KY |
|  | JC | CLINTON | MS |
|  | NYR | SHELBY | NC |
|  | TEP | WASHINGTON | NC |
|  | WF | HENDERSONVILLE | TN |
|  | SJM | GLADYS | VA |
|  | RUA | FRANKLIN | WV |
|  | K | LOGAN/SUMERCO | WV |
| 7.96 /7.36 | EO | DOUGLASVILLE | GA |
|  | HZX | DUBLIN | GA |
|  | Z | LOUISVILLE | KY |
|  | CJR | HATTIESBURG | MS |
|  | ZAG | LOUISVILLE | MS |
|  | SVC | NATCHEZ | MS |
|  | KDB | BOONE/RICH MTN | NC |
|  | LDB | DURHAM | NC |
|  | Z | LUMBERTON | NC |
|  | EOY | COLUMBIA | SC |
|  | OAK | LAFOLLETTE | TN |
|  | MMI | MEMPHIS | TN |
|  | NTM | NASHVILLE S. | TN |
|  | KLX | PARIS | TN |
|  | MMI | POCAHONTAS | TN |
|  | CBB | CHESTERFIELD | VA |
|  | OLM | STUARTS DRAFT | VA |
| 7.975/7.375 | TQU | ATHENS | GA |
|  | VAK | LAFAYETTE | GA |
|  | CO | WALTON | KY |
|  | VFU | GULFPORT | MS |
|  | YN | BURNSVILLE | NC |
|  | ROK | GREENVILLE | NC |
|  | DMI | GEORGETOWN | SC |
|  | LEO | GREENVILLE | SC |
|  | ILD | LYNCHBURG | VA |
|  | NV | VIRGINIA BEACH | VA |
|  | LNB | GRAFTON | WV |
|  | WMX | ST ALBANS | WV |
| 7.98 /7.38 | NAY | PONTOTOC | MS |
| 7.99 /7.39 | IMK | THOMASTON | GA |
|  | NON | COVINGTON | KY |
|  | MTN | LA GRANGE | KY |
|  | PDJ | WHTSBRG/PINE MT. | KY |
|  | UNA | PRENTISS | MS |
|  | CHZ | AQUADALE | NC |
|  | PLY | CHARLOTTE | NC |
|  | QBG | EDEN/STONEVILLE | NC |
|  | FAU | SHALLOTTE | NC |
|  | AC | SMITHFIELD | NC |
|  | FEC | LEXINGTON | SC |
|  | TA | CLARKSVILLE | TN |
|  | ZLA | DAYTON/RHEA CTY | TN |
|  | BJY | OAKFIELD | TN |
|  | OBW | SULPHUR SPRINGS | TN |
|  | AJO | MADISON | VA |
|  | ARO | PETERSBURG | VA |
|  | CRW | PARKERSBURG | WV |
| 6.19 /7.51 | HBY | MEMPHIS | TN |
| 7.075/7.675 | NGQ | FRANKFORT | KY |
| 7.315/7.915 | SPJ | FORSYTH | GA |

## 220 MHZ

|  |  |  |  |
|---|---|---|---|
| 3.94 /2.34 | DBB | BEDFD/APL ORCH | VA |
| 2.84 /2.44 | NEQ | MARIETTA | GA |
| 3.50 /3.50 | TFZ | CHARLOTTESVILLE | VA |
| 2.12 /3.72 | KHP | STERLING PARK | VA |
| 2.14 /3.74 | VMI | LEXINGTON | KY |
| 2.30 /3.90 | NSO | GAINESVILLE | GA |
|  | RAB | HERMITAGE | TN |
| 2.32 /3.92 | AZA | HIGH POINT | NC |
| 2.34 /3.94 | UPC | YORKVILLE | GA |
|  | QK | ASHLAND | KY |
|  | BVW | ASHVL/MT PISGAH | NC |
|  | WTX | HILLSBOROUGH | NC |
|  | GP | CLARKSVILLE | TN |
|  | ZJM | MEMPHS/FRAYSER | TN |
|  | HTA | VIENNA | VA |
| 2.38 /3.98 | APS | VALDOSTA | GA |
|  | HUV | LINWOOD | NC |
|  | ILY | GREER | SC |
|  | ZSA | GALLATIN | TN |
| 2.40 /4.00 | HQ | DELTAVILLE | VA |
| 2.42 /4.02 | JEH | CONYERS | GA |
|  | GLC | STERLING | GA |
|  | EHF | FAYETTEVILLE | NC |
|  | MDW | HICKORY | NC |
|  | TXE | LEESBURG | VA |
| 2.44 /4.04 | BZJ | DALTON | GA |
| 2.46 /4.06 | UPC | YORKVILLE | GA |
|  | N | PICKENS/SASFR MT | SC |
|  | MB | ARLINGTON | VA |
|  | G | FLAT TOP/WINTRPL | WV |
| 2.48 /4.08 | GIS | CARTERSVILLE | GA |
|  | CII | RIDGEVILLE | SC |
|  | NTM | NASHVILLE | TN |
| 2.50 /4.10 | F | CORNELIA | GA |
|  | YHD | FAIRFAX | VA |
|  | DBB | ROANOKE | VA |
| 2.52 /4.12 | NFP | ATLANTA/MARIETTA | GA |
|  | FEC | LITTLE MT | SC |
| 2.54 /4.14 | WOR | GREENSBORO | NC |
|  | QHF | PICKENS/CSRS HD | SC |
|  | SGS | FRANKLIN | TN |
|  | M | WILLIAMSON | WV |
| 2.56 /4.16 | KXO | AUGUSTA | GA |
|  | JNN | SASAFRAS MTN | GA |
|  | K | LENOIR/HIBRITN | NC |
| 2.58 /4.18 | YDX | DALLAS | GA |
|  | DAS | VIRGINIA BEACH | VA |
| 2.60 /4.20 | UA | AUGUSTA | GA |
|  | KMG | BLOUNTVILLE | TN |
|  | YTU | BROWNSVILLE | TN |
|  | PEA | HAMPDEN-SYDNEY | VA |
| 2.62 /4.22 | ZXK | VERSAILLES | KY |
|  | ACP | MAYODAN MT | NC |
|  | C | ROCKY MOUNT | NC |
|  | FZK | KNOXVILLE | TN |
|  | EHB | SPRINGFIELD | TN |
| 2.64 /4.24 | KNI | HENDSVL/BERWLW M. | NC |
| 2.66 /4.26 | NP | SHORT MTN. | TN |
| 2.68 /4.28 | BLR | ATLANTA | GA |
|  | OAK | LAFOLLETTE | TN |
|  | M | LYNCHBURG | VA |
| 2.70 /4.30 | MKT | LOUISVILLE | KY |
|  | PVI | STATESVILLE | NC |
| 2.72 /4.32 | JBF | THOMASVILLE | GA |
|  | KYB | PASCAGOULA | MS |
|  | US | CLEVELAND | TN |
| 2.74 /4.34 | DOC | ATLANTA | GA |
| 2.76 /4.36 | TYO | MARSHALL | NC |
| 2.78 /4.38 | RBT | CLEVELAND | GA |
|  | GJG | DANVILLE | VA |
| 2.80 /4.40 | TF | CONYERS | GA |
|  | DWU | ELLISVILLE | MS |
|  | BFB | CHARLOTTE | NC |
|  | QHF | PICKENS | SC |
|  | YGI | COLLIERVILLE | TN |
| 2.82 /4.42 | YSV | ROME | GA |
|  | VEZ | LOUISVILLE | KY |
|  | BS | MEMPHIS | TN |
|  | KHP | FAIRFAX | VA |
|  | NDQ | NORTON/HIGH KB | VA |
| 2.84 /4.44 | OG | NASHVILLE | TN |
|  | GLA | DANVLE/WHITE OAK | VA |
| 2.86 /4.46 | YON | KNOXVILLE | TN |
|  | FUJ | LOVETTSVILLE | VA |
| 2.88 /4.48 | PRH | NORCROSS | GA |
|  | ZIA | LOCUST | NC |
|  | QC | PARSONS | WV |
| 2.90 /4.50 | TYP | BILOXI | MS |
|  | YNY | WILMINGTON | NC |
|  | BBB | KNOXVILLE | TN |
|  | DRL | MEM/FISHERVILLE | TN |
|  | BVI | MARTINSVILLE | VA |
| 2.92 /4.52 | KSM | WALESKA/PNLGMT | GA |
| 3.92 /4.52 | HKK | GLEN | MS |
| 2.94 /4.54 | BVW | MT MITCHELL | NC |
| 2.96 /4.56 | DOC | ATL/CHESTNUT MT | GA |
| 2.98 /4.58 | F | PIKEVILLE | KY |
|  | YHH | SAURATOWN MT | NC |
|  | VFD | CROSS | SC |
| 3.00 /4.60 | N | ASHEVILLE | NC |
|  | NNR | HIGH POINT | NC |
|  | HMT | GASBURG/LK GASTN | VA |
| 3.02 /4.62 | ZTL | ATLANTA/BELL | GA |
|  | ETG | PIKEVILLE | KY |
|  | BLQ | GLOUCESTER | VA |
| 3.04 /4.64 | ABZ | RINGGOLD | GA |
|  | PEN | RALEIGH | NC |
|  | YHH | WINSTON-SALEM | NC |
| 3.06 /4.66 | BKM | MACON | GA |
|  | PLA | MARS HILL | NC |
|  | MC | NASHVILLE | TN |
|  | FPM | MANASSAS | VA |
| 3.08 /4.68 | SLJ | DALTON | GA |
|  | KPF | LK NORMN/CLT | NC |
| 3.10 /4.70 | GY | BAY ST. LOUIS | MS |
|  | RXG | SAURATOWN MT | NC |
|  | ARO | PETERSBURG | VA |
| 3.12 /4.72 | MBK | CLAYTON | GA |
|  | MSK | MT. TOXAWAY | NC |
|  | KHP | TYSONS CORNER | VA |
| 3.14 /4.74 | KVC | DALTON | GA |
|  | TFU | BURNSVILLE | NC |
|  | PYI | DONELSON | TN |
|  | FG | KINGSTON/LICK KB | WV |
| 3.16 /4.76 | BOC | STONE MT | GA |
|  | EXU | SALISBURY | NC |
|  | E | GREENBRIER | TN |
| 3.18 /4.78 | D | ACKERMAN | MS |
|  | WGY | EDEN | NC |
|  | VCM | CHATTANOOGA | TN |
|  | UCI | JC/BUFFALO MT | TN |
|  | KOG | MEMPHIS | TN |
|  | GJZ | WOODBRIDGE | VA |
| 3.20 /4.80 | PML | MORGANTON | NC |
| 3.22 /4.82 | C | ATLANTA | GA |
|  | MOP | LOUISVILLE | KY |
|  | D | ACKERMAN | MS |
|  | DWU | CANTON | NC |
|  | HTS | GREENSBORO | NC |
|  | CCF | ALEXANDRIA | VA |
| 3.24 /4.84 | ACY | PERRY | GA |
|  | DAN | GRIFTON | NC |
|  | OG | NASHVILLE | TN |
|  | PLV | BEDFORD | VA |
| 3.26 /4.86 | JNN | ALPHARETTA | GA |
|  | OBW | SULPHUR SPRINGS | TN |
|  | UHA | HAMPTON | VA |
| 3.28 /4.88 | UPC | YORKVILLE | GA |
|  | VNO | BAY ST. LOUIS | MS |
|  | RXG | SAURATOWN MT | NC |
|  | DRL | FISHERVILLE | TN |
| 3.30 /4.90 | QPL | MARIETTA | GA |
|  | ST | PONTOTOC | MS |
|  | EOY | COLUMBIA | SC |
|  | ZOK | CHATT/SIGNAL MT | TN |
| 3.32 /4.92 | NYK | PARIS MT/GRNVL | SC |
| 3.34 /4.94 | KXO | AUGUSTA | GA |
|  | UPC | PINE LOG MT. | GA |
|  | EV | ROSSVILLE | GA |
|  | NKM | GREENEVILLE | TN |
|  | PYI | NASHVILLE | TN |
|  | DBB | ROANOKE/POOR MTN | VA |
| 3.36 /4.96 | UDS | CHERRYVILLE | NC |
|  | JVX | GOLDSBORO | NC |
|  | WTB | SAURATOWN MT | NC |
|  | TUN | AIKEN | SC |
|  | OLM | STUARTS DRAFT | VA |
| 3.38 /4.98 | JSR | CUMMING/SAWNEE | GA |
|  | CHP | FALLS CHURCH | VA |

## 440 MHZ

|  |  |  |  |
|---|---|---|---|
| 9.45 /5.67 | DOC | ATLANTA | GA |
| 9.25 /1.25 | PXX | BRNSWK/JEKYLL IS. | GA |
|  | HUV | SAURATOWN MT | NC |
|  | GUP | LEXINGTON | SC |
|  | ERU | MEMPHIS | TN |
|  | ZQ | NASHVILLE | TN |
|  | O | MOUNDSVILLE | WV |
| 9.250/1.250 | TPI | PULASKI | TN |
| 9.25 /3.25 | UMU | SUMTER | SC |
|  | GVK | ALEXANDRIA | VA |
|  | WIN | NORFOLK | VA |
|  | NOJ | WAYNESBORO | VA |
|  | MM | ALBANY | GA |
|  | AOH | OWENSBORO | KY |
|  | NYR | SHELBY | NC |
| 1.25 /9.25 | ERU | MEMPHIS | TN |
| 6.25 /9.25 | FHL | ROANOKE/POOR MT. | VA |
| 7.00 /2.00 | ORL | LOUISVILLE | KY |
|  | HMT | GASBURG | VA |
|  | IQV | MARION | VA |
|  | CSG | WINCHESTER | VA |
| 7.025/2.025 | JA | AUGUSTA | GA |
| 7.05 /2.05 | XV | JASPER | TN |
|  | BEZ | MEDINA | TN |
| 7.10 /2.10 | ACP | MAYODAN | NC |
|  | ABJ | MILAN | TN |
| 7.125/2.125 | PLP | ROSSVILLE | GA |
| 7.15 /2.15 | BEA | RALEIGH | NC |
|  | J | CHATTANOOGA | TN |
| 7.150/2.150 | TPI | PULASKI | TN |
| 7.175/2.175 | EO | ROCKY FACE | GA |
|  | YUY | ROANOKE | VA |
| 7.20 /2.20 | APR | DECATUR | GA |
|  | SBX | GRAY/HOLSTON MT | TN |
|  | BJY | OAKFIELD | TN |
|  | TXE | STERLING | VA |
|  | QC | PARSONS | WV |
| 7.225/2.225 | KWT | LOUISVILLE | KY |
| 7.25 /2.25 | IS | GREENVILLE | SC |
|  | DES | OSWALD DOME | TN |
|  | HTI | COVINGTON | VA |
| 7.275/2.275 | VTT | MACON | GA |
| 7.30 /2.30 | VFD | CROSS | SC |
| 7.325/2.325 | JSR | CHATTANOOGA | TN |
| 7.40 /2.40 | FE | WARM SPRINGS | GA |
|  | QHF | PICKENS/CSRS HD | SC |
|  | YI | LYNCHBG/JACK MT | VA |
| 7.475/2.475 | NVG | LAVONIA | GA |
| 7.50 /2.50 | MLF | LOUISVILLE | KY |
|  | NTZ | KNOXVILLE | TN |
|  | CA | ROANOKE/POOR MT | VA |
| 7.500/2.500 | YNY | WILMINGTON | NC |
| 7.55 /2.55 | JEH | CONYERS | GA |
|  | MMY | PITTSBORO | NC |
| 7.625/2.625 | NSO | GAINESVILLE | GA |
|  | EPG | MEMPHIS | TN |
| 7.675/2.675 | UP | ETHRIDGE | TN |
| 7.70 /2.70 | HHH | ELLIJAY | GA |
|  | AZU | SAVANNAH | GA |
|  | VG | ROANOKE/POOR MT. | VA |
| 7.80 /2.80 | EPG | JACKSON | TN |
| 7.825/2.825 | G | MEMPHIS | TN |
| 7.90 /2.90 | AZA | HIGH POINT | NC |
| 7.925/2.925 | ASI | COVINGTON | GA |
| 7.95 /2.95 | FU | LYNCHBURG | VA |
| 8.00 /3.00 | OGF | CHATSWORTH | GA |
|  | EOY | COLUMBIA | SC |
|  | ZJM | MEMPHIS | TN |
|  | VL | GALAX/PT LOOKOUT | VA |
| 8.05 /3.05 | JVX | GOLDSBORO | NC |
|  | PUB | MT JULIET | TN |
| 8.10 /3.10 | IZD | LYNCH/BLACK MT | KY |
|  | GGC | SAURATOWN MT | NC |
|  | N | GRNVLE/PARIS MT | SC |
|  | GPM | FAYETTEVILLE | TN |
|  | IZF | MEMPHIS | TN |
|  | FHE | BUCKHANNON | WV |
| 8.15 /3.15 | S | AUGUSTA | GA |
|  | MHR | ST. ALBANS | WV |
| 8.20 /3.20 | CLA | SWEAT MT | GA |
|  | BS | MEMPHIS | TN |
| 8.25 /3.25 | HTA | VIENNA | VA |
| 8.30 /3.30 | X | ATHENS | GA |
|  | SSB | GALLATIN | TN |

| | | | |
|---|---|---|---|
| | KJH | GATLBG/COVE MT | TN |
| | KQI | STUART/SPOON MTN | VA |
| 8.325/3.325 | JMD | STOCKBRIDGE | GA |
| | JMD | STOCKBRIDGE | GA |
| 8.35 /3.35 | LFU | RICHMOND | VA |
| 8.375/3.375 | AQS | CALHOUN | GA |
| 8.40 /3.40 | RDM | HAMPTON | GA |
| | WTB | SAURATOWN MT | NC |
| | TUN | AIKEN | SC |
| | DBJ | CUMBERLAND CITY | TN |
| | QWW | MEMPHIS | TN |
| 9.40 /3.40 | LU | LAWRENCEVILLE | GA |
| 8.425/3.425 | MDE | JASPER | GA |
| | SQC | JOHNSON CITY | TN |
| 8.45 /3.45 | VAK | HIGH PT/LOOKT MT | GA |
| 8.50 /3.50 | LVH | ATLANTA | GA |
| | EQC | LOUISVILLE | KY |
| | X | LAUREL | MS |
| | PQZ | GREENSBORO | NC |
| | GYM | COLUMBIA | SC |
| | WKS | PARIS/GROVE HL | TN |
| | GUS | TYSONS CORNER | VA |
| 8.55 /3.55 | IN | LAWRENCEVILLE | GA |
| | XE | ROARING GAP | NC |
| 8.60 /3.60 | BA | MARIETTA | GA |
| | HYE | MENDENHALL | MS |
| | DWU | MT MITCHELL | NC |
| | CXD | FOREST | VA |
| 8.625/3.625 | PTK | JAMESTOWN | TN |
| 8.65 /3.65 | ZV | ATLANTA | GA |
| | D | ACKERMAN | MS |
| | UMI | HAMPTON | VA |
| | BON | ROANOKE/POOR MT. | VA |
| 8.70 /3.70 | BA | MARIETTA | GA |
| | KGJ | HATTIESBURG | MS |
| | LXW | HIGH POINT | NC |
| | LBT | LOCUST | NC |
| | DOR | BARTLETT | TN |
| 8.75 /3.75 | TF | COVINGTON | GA |
| | EDS | ALAMO | TN |
| | WIC | WINDY GAP MT | VA |
| 8.80 /3.80 | OKS | JASPER/BIG BUCK | GA |
| | IAT | NATCHEZ | MS |
| | HNK | SUMMERVILLE | SC |
| | NDH | CHESAPEAKE | VA |
| | VA | INDEPENDNCE HILL | VA |
| | VA | INDEPENDNCE HILL | VA |
| | JRL | WYTHEVILLE | VA |
| 8.85 /3.85 | PN | WALESKA/PNLOG MT | GA |
| | ULM | FRANKLIN | TN |
| 8.875/3.875 | MZ | HAW RIVER | NC |
| | LZQ | CAESARS HEAD | SC |
| 8.90 /3.90 | GWA | GRIFFIN | GA |
| | EVG | CHESAPEAKE | VA |
| 8.925/3.925 | LJU | RINGGOLD | GA |
| 8.95 /3.95 | RYF | MEMPHIS | TN |
| | NTG | WILLIAMSBURG | VA |
| 8.975/3.975 | BRN | MEMPHIS | TN |
| | WJS | ROCKWOOD | TN |
| 9.00 /4.00 | QDX | LAWRENCEVILLE | GA |
| | CO | JACKSON | MS |
| | JEQ | HICKORY | NC |
| | YP | SELMA | NC |
| | ADT | MEMPHIS | TN |
| | SN | PORTSMOUTH | VA |
| | IT | MULLINS/HRNDN MT | WV |
| 9.025/4.025 | MSE | STONE MT | GA |
| | RDK | MEMPHIS | TN |
| 9.05 /4.05 | PQD | MARIETTA | GA |
| | OG | NASHVILLE | TN |
| | AVA | GREAT FALLS | VA |
| | OLM | STUARTS DRAFT | VA |
| 9.10 /4.10 | MNI | BOWLING GREEN | KY |
| | WTT | LOUISVILLE | KY |
| | WUX | MERIDIAN | MS |
| | WTX | DURHAM | NC |
| | AM | CHATTANOOGA | TN |
| | JXT | MEMPHIS | TN |
| | RAG | STAIMTPM/EL KNB | VA |
| | LFS | WILLIAMSBURG | VA |
| 9.15 /4.15 | ZTL | ATLANTA/BELL | GA |
| | BJT | CLERMONT HARBOR | MS |
| | NTM | NASHVILLE | TN |
| | MB | ARLINGTON | VA |
| | DUM | LEXNGTN/ROCK MT. | VA |
| | VA | SPRINGFIELD | VA |
| 9.20 /4.20 | LBM | DECATUR | GA |
| | U | MAYTOWN | KY |
| | NHN | COLUMBIA | SC |
| | YTU | BROWNSVILLE | TN |
| | NEX | MORRISTOWN | TN |
| | ECM | CHESTER/ENON | VA |
| | EZA | WAYNESBORO | VA |
| 9.25 /4.25 | BOC | ATLANTA/STONE MT | GA |
| | DC | GLASGOW/CVCTY | KY |
| | KNI | HENDSVL/BERWLW M. | NC |
| | F | SMITHFIELD | NC |
| | PAJ | BARTLETT | TN |
| | E | GREENBRIER | TN |
| | TFZ | CHARLOTTESVILLE | VA |
| 9.30 /4.30 | ZZD | LOUISVILLE | KY |
| | WOR | GREENSBORO | NC |
| | MNH | CHARLESTON | SC |
| | DRL | FISHERVILLE | TN |
| | GBI | KNOXVILLE | TN |
| | EFK | FALLS CHURCH | VA |
| 9.325/4.325 | BA | MARIETTA | GA |
| | T | WYTHEVL/SAND MTN | VA |
| 9.35 /4.35 | JF | TIFTON | GA |
| | OCP | HIGHLAND HEIGHTS | KY |
| | IKY | GIBSONVILLE | NC |
| | BKY | GALLATIN | TN |
| | DBB | BEDFD/APL ORCH | VA |
| 9.375/4.375 | IZF | JASPER | GA |
| 9.40 /4.40 | UA | BLYTHE | GA |
| | RBL | LA GRANGE | KY |
| | LTW | MERIDIAN | MS |
| | YZF | FAYETTEVILLE | NC |
| | KOG | MEMPHIS | TN |
| | EAJ | OAK RIDGE | TN |
| | ARO | PETERSBURG | VA |
| | G | ALDERSON | WV |
| 9.425/4.425 | J | CHATTANOOGA | TN |
| | ISI | ALTAVISTA | VA |
| 9.45 /4.45 | YTU | BROWNSVILLE | TN |
| | KWP | GALLATIN | TN |
| | ZOA | FALLS CHURCH | VA |
| 9.50 /4.50 | MM | ALBANY | GA |
| | UWL | ATLANTA | GA |
| | APA | HENDERSON | KY |
| | MOP | LOUISVILLE | KY |
| | ICX | LEXINGTON | NC |
| | PEN | RALEIGH | NC |
| | LSP | BRISTOL/HLST MT | TN |
| | KSL | KNOXVILLE | TN |
| | ZAI | ALEXANDRIA | VA |
| | HEX | LYNCHBURG | VA |
| 9.525/4.525 | MRS | NEW HEBRON | MS |
| 6.55 /4.55 | IF | N.BILOXI/D'IBERV | MS |
| 9.55 /4.55 | NEF | TYRONE | GA |
| | VTE | GASTONIA | NC |
| | Y | COOKEVILLE | TN |
| | OGT | HAMPTON | VA |
| 9.575/4.575 | OG | NASHVILLE | TN |
| 9.60 /4.60 | CO | JACKSON | MS |
| | BFB | CHARLOTTE | NC |
| | NK | KNOXVILLE | TN |
| | JXI | MEMPHIS | TN |
| | HFH | ALEXANDRIA | VA |
| | EZR | HUNTINGTON | WV |
| 9.625/4.625 | WQ | ATLANTA | GA |
| | OCF | RICHTON | MS |
| | E | BLUEFIELD | VA |
| 9.65 /4.65 | IBW | SMYRNA | GA |
| | ST | PONTOTOC | MS |
| | MME | SALISBURY | NC |
| | NKM | GREENEVILLE | TN |
| | OYS | SHORT MTN | TN |
| | ARO | RICHMOND | VA |
| 9.675/4.675 | EBZ | NEWNAN | GA |
| | DWU | ELLISVILLE | MS |
| | AY | NASHVILLE | TN |
| 9.70 /4.70 | LUQ | DALLAS | GA |
| | HHH | ELLIJAY TALONA M | GA |
| | APS | VALDOSTA | GA |
| | AUN | LOUISVILLE | KY |
| | Y | BRANDON | MS |
| | JEH | ROCKY MOUNT | NC |
| | DRU | MT PLEASANT | SC |
| | LG | MORGANTOWN | WV |
| 9.725/4.725 | NFA | COVINGTON | GA |
| 9.75 /4.75 | EMM | CONYERS | GA |
| | VZF | STARKVILLE | MS |
| | TC | HENDERSON | TN |
| | KQI | FOREST | VA |
| | JYF | TYSONS CORNER | VA |
| 9.775/4.775 | NEQ | ATLANTA/MARIETTA | GA |
| 9.80 /4.80 | BEJ | ELIZABETHTOWN | KY |
| | CO | JACKSON | MS |
| | J | GREENVILLE | NC |
| | UY | MT AIRY/FSH PK | NC |
| | JXI | MEMPHIS | TN |
| | LP | MORRISTOWN | TN |
| | MIC | OILVILLE | VA |
| | FRV | BECKLEY/KINGSTON | WV |
| | CUL | MORGANTOWN | WV |
| 9.825/4.825 | FC | MEMPHIS | TN |
| | ZBP | STAUNTON | VA |
| 4.85 /4.85 | BZJ | DALTON | GA |
| 9.85 /4.85 | WRE | POPLARVILLE | MS |
| | CQ | CHARLOTTE | NC |
| | GMP | WILMINGTON | NC |
| | ARO | RICHMOND | VA |
| 9.875/4.875 | LRD | CHATTANOOGA | TN |
| | BOX | JACKSON | TN |
| | FMD | JANE LEW | WV |
| 9.90 /4.90 | D | ACKERMAN | MS |
| | COS | ASHVL/MT PISGAH | NC |
| | ZW | FAYETTEVILLE | NC |
| | VBC | NEW BERN | NC |
| | J | WILSON | NC |
| | MMI | MEMPHIS | TN |
| | IDG | WATERTOWN | TN |
| | QT | RIDGEWAY | VA |
| | FQR | WOODBRIDGE | VA |
| 9.925/4.925 | NNO | ATLANTA | GA |
| | PJR | JESUP | GA |
| | MKG | ASHLAND | KY |
| | TTE | VICKSBURG | MS |
| | BUH | ANDERSON/SAS MT | SC |
| | VIH | DOVER | TN |
| | BON | ROANOKE/LONG RDG. | VA |
| 9.95 /4.95 | I | AUGUSTA | GA |
| | KIN | PERRY | GA |
| | EJA | LEXINGTON | KY |
| | WXL | RALEIGH | NC |
| | SIR | BENTON/BEAN MT | TN |
| | GP | CLARKSVILLE | TN |
| | NNE | MEMPHIS | TN |
| | WRN | STAUNTON | VA |
| | KXV | VIRGINIA BEACH | VA |
| | CQV | SO. CHARLESTON | WV |
| 9.975/4.975 | YNZ | ATLANTA | GA |
| | TVE | BRUNSWICK | GA |
| | TAT | ASHLAND | KY |
| | NS | CUSTER | KY |
| | AGD | JACKSON | MS |
| | EKT | WHEELING | WV |
| 6.65 /6.65 | DBB | ROANOKE | VA |
| 3.725/8.725 | DN | FAIRFAX | VA |
| 3.85 /8.85 | YSV | WALUSKA/PINE LOG | GA |
| 3.975/8.975 | SDE | WOODFORD | VA |
| 4.175/9.175 | O | WINCHESTER | VA |
| 4.225/9.225 | JCE | MANASSAS | VA |
| 4.525/9.525 | VF | GRETHEL | KY |
| 4.60 /9.60 | SJH | SPRINGFIELD | KY |
| 4.825/9.825 | DOC | ATLANTA | GA |
| 4.875/9.875 | DCS | ARLINGTON | VA |
| | DCS | WOODBRIDGE | VA |
| 4.925/9.925 | TSC | WINCH/BLUEMONT | VA |
| 6.25 /3.25 | HEX | LYNCHBURG | VA |

# SERA REPEATER INDEX LISTINGS BY CITY - BY STATE

## GEORGIA REPEATERS

### 10 METERS

| | | | | | |
|---|---|---|---|---|---|
| ALBANY | W4MM | 29.58 | 29.68 | * | L |
| ATL/MARIETTA | N4NEQ | 29.54 | 29.64 | N | L |
| ATLANTA | WB8LVH | 29.52 | 29.62 | N | L |
| DALTON | N4BZJ | 29.58 | 29.68 | * | AL |

### 6 METERS

| | | | | | |
|---|---|---|---|---|---|
| ATL/MARIETTA | WA4MPW | 52.09 | 53.09 | N | |
| AUGUSTA | K4EDU | 52.03 | 53.03 | N | |
| CARTERSVILLE | WB4AEG | 52.07 | 53.07 | * | PR |
| CONYERS | WB4JEH | 52.55 | 53.55 | N | |
| FORSYTH | KB4KIN | 52.13 | 53.13 | N | |
| PINE LOG MT | WB4UPC | 52.05 | 53.05 | * | L |
| PINE LOG MT. | KE4PN | 52.29 | 53.29 | * | L |

### 2 METERS

| | | | | | |
|---|---|---|---|---|---|
| ADAIRSVILLE | WD4IWL | 146.085 | 146.685 | * | PL |
| ALBANY | W4MM | 144.55 | 145.15 | * | L |
| ALBANY | W4MM | 146.10 | 146.70 | * | A |
| ALBANY | W4MM | 146.13 | 146.73 | * | |
| ALBANY | W4MM | 146.22 | 146.82 | * | |
| ALBANY | W4MM | 147.72 | 147.12 | * | K |
| ALBANY | WB4TFW | 147.75 | 147.15 | N | |
| AMERICUS | K4VBH | 147.87 | 147.27 | N | |
| ASHBURN | WD4EVD | 147.885 | 147.285 | * | P |
| ATHENS | WA4BKF | 146.145 | 146.745 | * | P |
| ATHENS | K4TQU | 147.975 | 147.375 | N | |
| ATLANTA | W4AQL | 144.55 | 145.15 | * | PE |
| ATLANTA | K4DRQ | 144.69 | 145.29 | N | |
| ATLANTA | W4DOC | 144.75 | 145.35 | N | |
| ATLANTA | WB4QGR | 146.04 | 146.64 | N | |
| ATLANTA | W4DOC | 146.22 | 146.82 | * | P |
| ATLANTA | N4OD | 146.37 | 146.97 | N | |
| ATLANTA | WA4NNO | 146.40 | 147.00 | N | P |
| ATLANTA | K4YSB | 147.705 | 147.105 | N | Y |
| ATLANTA | K4SMX | 147.795 | 147.195 | N | T |
| ATLANTA | WD4KDT | 147.855 | 147.255 | * | PL |
| ATLANTA/AIRPORT | W4REI | 147.63 | 147.03 | * | |
| ATLANTA/BELL | W4PME | 144.81 | 145.41 | * | AE |
| ATLANTA/GPCO | WA4VBX | 147.885 | 147.285 | * | |
| ATLANTA/MARIETTA | N4NFP | 146.055 | 146.655 | N | EL |
| ATLANTA/MARIETTA | N4NEQ | 147.945 | 147.345 | N | P |
| ATLANTA/SWEAT MT | KD4NC | 146.13 | 146.73 | * | LK |
| AUGUSTA | W4TUN | 144.51 | 145.11 | * | A |
| AUGUSTA | AA4UA | 144.77 | 145.37 | * | A |
| AUGUSTA | N4JA | 144.89 | 145.49 | * | |
| AUGUSTA | W4LWT | 146.04 | 146.64 | * | K |
| AUGUSTA | KT4N | 146.34 | 146.94 | N | |
| AUGUSTA | NA4I | 146.385 | 146.985 | * | P |
| AUGUSTA | NI4S | 147.72 | 147.12 | N | P |
| AUGUSTA | N4BMA | 147.78 | 147.18 | N | Y |
| BALDWIN | WD4NHW | 147.78 | 147.18 | N | A |
| BONAIRE | KM4DT | 147.615 | 147.015 | N | |
| BRNSWK/JEKYLL IS. | KB4PXX | 144.81 | 145.41 | * | |
| BRUNSWICK | K4TVE | 146.13 | 146.73 | N | A |
| CAIRO | W4UCJ | 147.795 | 147.195 | N | CE |
| CALHOUN/JASPER | KC4AQS | 147.405 | 146.805 | * | PLR |
| CARROLLTON | W4FWD | 146.04 | 146.64 | N | A |
| CARTERSVILLE | N4GIS | 144.59 | 145.19 | N | |
| CEDARTOWN | W4CMA | 147.72 | 147.12 | * | P |
| CLAYTON | WA4BLQ | 144.65 | 145.25 | * | |
| CLEVELAND/LONG | WB4HIG | 146.31 | 146.91 | * | A |
| CLEVELAND/LONG | K4FOW | 147.615 | 147.015 | * | |
| COLUMBUS | KA4CEK | 144.71 | 145.31 | N | |
| COLUMBUS | W4CVY | 146.01 | 146.61 | N | A |
| COLUMBUS | WB4TOM | 146.28 | 146.88 | * | |
| CONYERS | WB4JEH | 144.63 | 145.23 | N | |
| CONYERS | KL7TF | 147.81 | 147.21 | * | PAEA |
| COOLIDGE | N4JBF | 144.57 | 145.17 | * | PR |
| CORDELE | WA4RWS | 144.89 | 145.49 | N | |
| COVINGTON | WA4ASI | 146.325 | 146.925 | N | AL |
| CUMMING/SAWNEE | K4BYK | 147.75 | 147.15 | * | PL |
| DALLAS | K4DVJ | 146.25 | 146.85 | N | PE |
| DALONEGA | KJ4EV | 147.435 | 146.835 | * | A |
| DALTON | KE4UJ | 144.63 | 145.23 | * | A |
| DALTON | N4BZJ | 144.65 | 145.25 | * | A |
| DALTON | N4BZJ | 147.735 | 147.135 | * | EL |
| DECATUR | W4BOC | 144.85 | 145.45 | N | |
| DOUGLASVILLE | N4UOX | 144.51 | 145.11 | N | |
| DOUGLASVILLE | KB4EO | 147.96 | 147.36 | * | E |
| DUBLIN | WA4HZX | 147.96 | 147.36 | N | |
| ELLIJAY/TALONA M | W4HHH | 146.385 | 146.985 | * | A |
| EVANS | N4TDL | 146.28 | 146.88 | * | |
| FAYETTEVILLE | K4UWN | 146.085 | 146.685 | N | |
| FOLKSTON | K4DMK | 146.19 | 146.79 | N | |
| FORSYTH | W4SPJ | 147.315 | 147.915 | N | NB |
| FORSYTH | KB4KIN | 147.765 | 147.165 | N | |
| GAINESVILLE | W4NSO | 146.07 | 146.67 | * | PE |
| GRIFFIN | K4HYB | 144.79 | 145.39 | * | P |
| GRIFFIN | K4HYB | 146.31 | 146.91 | * | |
| HARTWELL | WA4RBS | 146.895 | 146.295 | * | NB |
| HINESVILLE | KK4UV | 144.87 | 145.47 | * | A |
| IRWINTON | WB4NFG | 147.84 | 147.24 | N | |
| JASPER | KB4IZF | 144.77 | 145.37 | * | R |
| JASPER | W4OOM | 146.10 | 146.70 | * | |
| JEFFERSON | KB4ZUN | 147.825 | 147.225 | N | |
| JESUP | WA4EQL | 146.07 | 146.67 | * | |
| JESUP | N4PJR | 146.325 | 146.925 | * | P |
| JESUP | N4PJR | 147.945 | 147.345 | N | |
| JONESBORO | WA4DIW | 144.57 | 145.17 | * | E |
| JONESBORO | WA4OGE | 144.73 | 145.33 | N | E |
| LAFAYETTE | KB4VAK | 147.975 | 147.375 | * | |
| LAGRANGE | KO4R | 146.25 | 146.85 | N | O |

## MORE GEORGIA REPEATERS

| | | | | | |
|---|---|---|---|---|---|
| LAGRANGE | WB4BXO | 147.93 | 147.33 | N | |
| LAVONIA | K4NVG | 146.115 | 146.715 | * | |
| LAWRENCEVILLE | WD4JXR | 147.675 | 147.075 | * | EP |
| LYONS | K4HAO | 146.22 | 146.82 | N | |
| MACON | WB4OLL | 144.83 | 145.43 | * | PLR |
| MACON | W4BKM | 146.06 | 146.66 | * | NBP |
| MACON | N3SM | 146.895 | 146.295 | N | |
| MACON | WA4DDI | 147.66 | 147.06 | N | T |
| MADISON | WB4DKY | 146.265 | 146.865 | * | A |
| MARIETTA | K4LCI | 144.83 | 145.43 | N | E |
| MARIETTA | WA4QPL | 144.89 | 145.49 | N | P |
| MARIETTA | KC4KE | 146.175 | 146.775 | N | |
| MARIETTA | W4IUD | 146.28 | 146.88 | * | |
| METTER | W4TYM | 147.645 | 147.045 | N | AE |
| MIDWAY | KF4UM | 147.615 | 147.015 | * | |
| MILLEDGEVILLE | KF4LI | 144.55 | 145.15 | * | PT |
| MILLEDGEVILLE | WB4DOJ | 146.10 | 146.70 | * | PEL |
| MILLEDGEVILLE | KF4LT | 146.205 | 146.805 | * | |
| MILLEDGEVILLE | K4FRM | 147.735 | 147.135 | * | |
| MORGANTON | K5GBS | 146.475 | 147.075 | N | |
| MOULTRIE | WD4KOW | 146.19 | 146.79 | N | |
| NEWNAN | K4SEX | 144.53 | 145.13 | * | P |
| NEWNAN | K4SEX | 146.19 | 146.79 | * | P |
| PERRY | KB4KIN | 146.355 | 146.955 | N | PL |
| PERRY | WL7ACY | 147.90 | 147.30 | * | AL |
| PINE MT/HAMILTON. | WB4ULJ | 144.59 | 145.19 | N | |
| PRESTON | WB4TOV | 146.385 | 146.985 | N | |
| QUITMAN | WA4NKL | 146.28 | 146.88 | N | |
| RINGGOLD | W4ABZ | 146.115 | 146.715 | N | |
| ROCKY TOP MT | K5PRE | 146.355 | 146.955 | N | |
| ROME | WB4YSV | 147.90 | 147.30 | N | |
| ROME/MT. ALTO | W4VO | 146.34 | 146.94 | * | P |
| ROSSVILLE | W4FGQ | 144.75 | 145.35 | * | |
| ROSWELL | N4CLA | 147.66 | 147.06 | * | PE |
| SAVANNAH | KK4TO | 146.10 | 146.70 | * | PET |
| SAVANNAH | W4HBB | 146.28 | 146.88 | N | |
| SAVANNAH | W4HBB | 146.37 | 146.97 | N | A |
| SAVANNAH | KK4TO | 147.81 | 147.21 | * | PET |
| ST SIMONS ISL | KA4CVE | 147.69 | 147.09 | N | |
| ST. MARYS | KA4UUB | 146.385 | 146.985 | N | |
| STATESBORO | NC4D | 147.705 | 147.105 | N | |
| STOCKBRIDGE | WA4JDR | 144.71 | 145.31 | N | |
| STONE MT | W4BOC | 146.16 | 146.76 | N | |
| SUMMERVILLE | KA4LVY | 147.825 | 147.225 | N | |
| SWAINSBORO | K4VYX | 146.19 | 146.79 | N | O |
| SWEAT MT/MARIETT | N4CLA | 144.87 | 145.47 | * | PE |
| SYCAMORE | KF4BI | 147.78 | 147.18 | N | |
| THOMASTON | K4IMK | 147.99 | 147.39 | N | |
| THOMASVILLE | W4UCJ | 147.66 | 147.06 | N | A |
| THOMPSON | WB4OCB | 146.235 | 146.835 | N | C |
| TOCCOA | KA4DIP | 147.93 | 147.33 | * | |
| TWIN CITY | N4REB | 147.915 | 147.315 | N | PR |
| TYRONE | W4PSZ | 144.61 | 145.21 | N | P |
| UNION CITY | WA4UPE | 146.025 | 146.625 | N | |
| VALDOSTA | W4APS | 146.16 | 146.76 | N | |
| VALDOSTA | KB0Y | 147.735 | 147.135 | N | A |
| VALDOSTA/TIFTON | WA4VLP | 144.53 | 145.13 | N | |
| VIDALIA | N4JWP | 146.025 | 146.625 | * | A |
| WALESKA/PNLGMT | KE4PN | 144.67 | 145.27 | * | L |
| WARM SPRINGS | N4UER | 146.385 | 146.985 | N | |
| WARNER ROBINS | WB4BDP | 146.01 | 146.61 | * | A |
| WARNER ROBINS | WA4QWI | 146.25 | 146.85 | * | A |
| WATKINSVILLE | N4NFA | 147.645 | 147.045 | * | RP |
| WAYCROSS | WA4GBG | 146.04 | 146.64 | N | |
| WAYNESBORO | WD4COL | 144.63 | 145.23 | * | |
| WRENS | WB4OCB | 146.175 | 146.775 | N | |
| WRIGHTSVILLE | WA4RVB | 146.34 | 146.94 | N | AL |

### 220 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ALPHARETTA | KC4JNN | 223.26 | 224.86 | N | AT |
| ATL/CHESTNUT MT | W4DOC | 222.96 | 224.56 | N | L |
| ATLANTA | N4BLR | 222.68 | 224.28 | N | |
| ATLANTA | W4DOC | 222.74 | 224.34 | N | |
| ATLANTA | KK4C | 223.22 | 224.82 | * | PLR |
| ATLANTA/BELL | W4ZTL | 223.02 | 224.62 | * | |
| ATLANTA/MARIETTA | N4NFP | 222.52 | 224.12 | N | PL |
| AUGUSTA | WB4KXO | 222.56 | 224.16 | N | Y |
| AUGUSTA | AA4UA | 222.60 | 224.20 | * | A |
| AUGUSTA | WB4KXO | 223.34 | 224.94 | * | P |
| CARTERSVILLE | N4GIS | 222.48 | 224.08 | N | |
| CLAYTON | WD4MBK | 223.12 | 224.72 | * | |
| CLEVELAND | N4RBT | 222.78 | 224.38 | * | P |
| CONYERS | WB4JEH | 222.42 | 224.02 | N | |
| CONYERS | KL7TF | 222.80 | 224.40 | * | |
| CORNELIA | WS4F | 222.50 | 224.10 | N | |
| CUMMING/SAWNEE | K4JSR | 223.38 | 224.98 | * | PL |
| DALLAS | N4YDX | 222.58 | 224.18 | N | |
| DALTON | N4BZJ | 222.44 | 224.04 | * | |
| DALTON | N4SLJ | 223.08 | 224.68 | N | |
| DALTON | N4KVC | 223.14 | 224.74 | * | ER |
| GAINESVILLE | W4NSO | 222.30 | 223.90 | * | PR |
| MACON | W4BKM | 223.06 | 224.66 | * | |
| MARIETTA | N4NEQ | 222.84 | 222.44 | N | PE |
| MARIETTA | WA4QPL | 223.30 | 224.90 | N | |
| NORCROSS | KB4PRH | 222.88 | 224.48 | * | |
| PERRY | WL7ACY | 223.24 | 224.84 | * | AL |
| PINE LOG MT. | WB4UPC | 223.34 | 224.94 | * | L |
| RINGGOLD | W4ABZ | 223.04 | 224.64 | N | P |
| ROME | WB4YSV | 222.82 | 224.42 | N | |
| ROSSVILLE | KC4EV | 223.34 | 224.94 | N | |
| SASAFRAS MTN | KC4JNN | 222.56 | 224.16 | N | A |
| STERLING | N3GLC | 222.42 | 224.02 | N | |
| STONE MT | W4BOC | 223.16 | 224.76 | N | |
| THOMASVILLE | N4JBF | 222.72 | 224.32 | * | AL |
| VALDOSTA | W4APS | 222.38 | 223.98 | N | |
| WALESKA/PNLGMT | N4KSM | 222.92 | 224.52 | * | A |
| YORKVILLE | WB4UPC | 222.34 | 223.94 | * | L |
| YORKVILLE | WB4UPC | 222.46 | 224.06 | * | L |
| YORKVILLE | WB4UPC | 223.28 | 224.88 | * | |

### 440 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ALBANY | W4MM | 439.25 | 427.25 | * | V |
| ALBANY | W4MM | 449.50 | 444.50 | * | |
| ATHENS | NB4X | 448.30 | 443.30 | * | |
| ATLANTA | W4DOC | 444.825 | 449.825 | N | NB |
| ATLANTA | WB8LVH | 448.50 | 443.50 | N | |
| ATLANTA | KE4ZV | 448.65 | 443.65 | * | K |
| ATLANTA | W4DOC | 449.45 | 145.67 | N | R |
| ATLANTA | WB4UWL | 449.50 | 444.50 | * | |
| ATLANTA | N4WQ | 449.625 | 444.625 | N | AO |
| ATLANTA | WA4NNO | 449.925 | 444.925 | N | |
| ATLANTA | WA4YNZ | 449.975 | 444.975 | N | T |
| ATLANTA/BELL | W4ZTL | 449.15 | 444.15 | * | AE |
| ATLANTA/MARIETTA | N4NEQ | 449.775 | 444.775 | N | PL |
| ATLANTA/STONE MT | W4BOC | 449.25 | 444.25 | N | |
| AUGUSTA | N4JA | 447.025 | 442.025 | * | |
| AUGUSTA | NI4S | 448.15 | 443.15 | N | O |
| AUGUSTA | NA4I | 449.95 | 444.95 | * | |
| BLYTHE | AA4UA | 449.40 | 444.40 | * | |
| BRNSWK/JEKYLL IS. | KB4PXX | 439.25 | 421.25 | * | V |
| BRUNSWICK | K4TVE | 449.975 | 444.975 | N | |
| CALHOUN | KC4AQS | 448.375 | 443.375 | N | |
| CHATSWORTH | N4OGF | 448.00 | 443.00 | N | |
| CONYERS | WB4JEH | 447.55 | 442.55 | N | |
| CONYERS | N4EMM | 449.75 | 444.75 | N | C |
| COVINGTON | WA4ASI | 447.925 | 442.925 | N | AL |
| COVINGTON | KL7TF | 448.75 | 443.75 | * | L |
| COVINGTON | N4NFA | 449.725 | 444.725 | * | L |
| DALLAS | WD4LUQ | 449.70 | 444.70 | * | |
| DALTON | N4BZJ | 444.85 | 444.85 | * | |
| DECATUR | N3APR | 447.20 | 442.20 | N | A |
| DECATUR | WB4LBM | 449.20 | 444.20 | N | |
| ELLIJAY | W4HHH | 447.70 | 442.70 | N | |
| ELLIJAY TALONA M | W4HHH | 449.70 | 444.70 | * | |
| GAINESVILLE | W4NSO | 447.625 | 442.625 | * | PERL |
| GRIFFIN | WB4GWA | 448.90 | 443.90 | * | P |
| HAMPTON | N4RDM | 448.40 | 443.40 | N | PRP |
| HIGH PT/LOOKT MT. | KB4VAK | 448.45 | 443.45 | * | |
| JASPER | KB4MDE | 448.425 | 443.425 | N | |
| JASPER | KB4IZF | 449.375 | 444.375 | * | R |
| JASPER/BIG BUCK | N4OKS | 448.80 | 443.80 | N | |
| JESUP | N4PJR | 449.925 | 444.925 | N | |
| LAVONIA | K4NVG | 447.475 | 442.475 | * | A |
| LAWRENCEVILLE | KK4IN | 448.55 | 443.55 | N | NB |
| LAWRENCEVILLE | WB4QDX | 449.00 | 444.00 | N | |
| LAWRENCEVILLE | KC4LU | 449.40 | 443.40 | N | |
| MACON | K4VTT | 447.275 | 442.275 | * | AELR |
| MARIETTA | KM4BA | 448.60 | 443.60 | N | PT |
| MARIETTA | KM4BA | 448.70 | 443.70 | N | |
| MARIETTA | K4PQD | 449.05 | 444.05 | N | |
| MARIETTA | KM4BA | 449.325 | 444.325 | N | PTO |
| NEWNAN | N4EBZ | 449.675 | 444.675 | N | P |
| PERRY | KB4KIN | 449.95 | 444.95 | N | PL |
| RINGGOLD | WA4LJU | 448.925 | 443.925 | N | |
| ROCKY FACE | AA4EO | 447.175 | 442.175 | N | |
| ROSSVILLE | N4PLP | 447.125 | 442.125 | N | C |
| SAVANNAH | KC4AZU | 447.70 | 442.70 | N | C |
| SMYRNA | N4IBW | 449.65 | 444.65 | N | |
| STOCKBRIDGE | N4JMD | 448.325 | 443.325 | N | PTR |
| STOCKBRIDGE | N4JMD | 448.325 | 443.325 | N | |
| STONE MT | N4MSE | 449.025 | 444.025 | N | |
| SWEAT MT | N4CLA | 448.20 | 443.20 | N | |
| TIFTON | KF4JF | 449.35 | 444.35 | N | |
| TYRONE | K4NEF | 449.55 | 444.55 | N | |
| VALDOSTA | W4APS | 449.70 | 444.70 | N | |
| WALESKA/PNLOG MT | KE4PN | 448.85 | 443.85 | * | L |
| WALUSKA/PINE LOG | WB4YSV | 443.85 | 448.85 | N | NB |
| WARM SPRINGS | KN4FE | 447.40 | 442.40 | N | |

### 920 MHZ

| | | | | | |
|---|---|---|---|---|---|
| AUGUSTA | AA4UA | 940.00 | 440.00 | * | A |

### 1270 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ATL/CHESTNUT MT | W4DOC | 291.40 | 271.40 | N | |
| ATLANTA/BELL | KB4KIN | 272.00 | 292.00 | N | |
| CALHOUN/JASPER | KC4AQS | 292.00 | 272.00 | * | PLR |

## KENTUCKY REPEATERS

### 6 METERS

| | | | | | |
|---|---|---|---|---|---|
| GUTHRIE | KA4ZKL | 52.23 | 53.23 | N | C |
| LOUISVILLE | WB4LBR | 52.025 | 53.025 | N | |

### 2 METERS

| | | | | | |
|---|---|---|---|---|---|
| ASHLAND | KD4SN | 146.34 | 146.94 | * | |
| ASHLAND | KA4DII | 147.84 | 147.24 | N | P |
| ASHLAND | WA8KWH | 147.93 | 147.33 | * | A |
| BAXTER | WM4H | 147.78 | 147.18 | N | |
| BENTON | WG4U | 147.72 | 147.12 | N | |
| BEREA | KI4B | 146.115 | 146.715 | N | |
| BETSY LAYNE | WA4YCU | 146.035 | 146.635 | N | |
| BOWLING GREEN | WD4MNI | 146.055 | 146.655 | * | PER |
| BOWLING GREEN | KA4CLL | 146.25 | 146.85 | N | |
| CAMPBELLSVILLE | WA4UXJ | 146.04 | 146.64 | * | |
| CLARKSON | KB4NFK | 144.55 | 145.15 | N | |
| CLARKSON | N4PXK | 144.89 | 145.49 | N | |
| CORBIN | WD4KWV | 146.01 | 146.61 | * | |
| COVINGTON | WB8NON | 144.81 | 145.41 | * | |
| COVINGTON | WB8NON | 147.99 | 147.39 | * | A |
| DEANE | AK4U | 144.61 | 145.21 | * | L |
| DICKS KNOB | N4MWA | 147.765 | 147.165 | * | |
| DIXON | WD4RBI | 147.78 | 147.18 | N | |
| ELIZABETHTOWN | W4BEJ | 146.325 | 146.925 | * | |
| ELIZABETHTOWN | W4BEJ | 146.38 | 146.98 | * | AL |
| ELKHORN CITY | WB4WAU | 147.60 | 147.00 | * | |
| ERLANGER | N4BOP | 144.61 | 145.21 | N | |
| FAIR DEALING | N4AVE | 147.84 | 147.24 | N | |
| FERN CREEK | WB4NSY | 146.16 | 146.76 | N | A |
| FRANKFORT | KB4AGA | 144.69 | 145.29 | N | |
| FRANKFORT | K4NGQ | 147.075 | 147.675 | N | |
| FRANKFORT | KC4AI | 147.84 | 147.24 | N | |
| GLASGOW | KA0BKD | 144.81 | 145.41 | * | L |
| GLASGOW | W4WZH | 146.34 | 146.94 | * | A |
| GRAYSON | KF4JO | 146.10 | 146.70 | N | |
| GRETHEL | KJ4VF | 147.645 | 147.045 | N | C |
| GUTHRIE | KA4NNE | 146.205 | 146.805 | N | |
| HALLS GAP | WD8PRH | 144.57 | 145.17 | N | AL |
| HARLAN | WA4ZAC | 147.69 | 147.09 | N | |
| HAZARD | K4VHF | 146.07 | 146.67 | * | |
| HENDERSON | K4DPP | 146.37 | 146.97 | N | |
| HIGHLAND HEIGHTS | K4CO | 147.855 | 147.255 | N | |
| HOPKINSVILLE | WA4ZVL | 147.63 | 147.03 | N | A |
| INDEPENDENCE | K4JBV | 146.295 | 146.895 | * | A |
| IRVINGTON | WB4WVH | 146.30 | 146.90 | * | AE |
| LA GRANGE | N4RBL | 144.75 | 145.35 | * | |
| LA GRANGE | W4MTN | 147.99 | 147.39 | N | |
| LAWRENCEBURG | KK4PL | 144.69 | 145.29 | * | A |
| LEXINGTON | KC4TX | 144.85 | 145.45 | * | P |
| LEXINGTON | WA4HBM | 146.16 | 146.76 | * | PE |
| LEXINGTON | W4AUZ | 146.34 | 146.94 | N | |
| LEXINGTON | WB4FDK | 147.615 | 147.015 | N | |
| LEXINGTON | WA4HBM | 147.765 | 147.165 | * | |
| LITCHFIELD | KB4NFK | 147.825 | 147.225 | * | |
| LOUISA | WA4SWF | 146.13 | 146.73 | * | E |
| LOUISVILLE | WB8PRH | 144.63 | 145.23 | N | L |
| LOUISVILLE | W4BDC | 146.10 | 146.70 | * | PEL |
| LOUISVILLE | W4OAU | 146.28 | 146.88 | N | P |
| LOUISVILLE | W4PJZ | 147.63 | 147.03 | N | PET |
| LOUISVILLE | N4NMC | 147.67 | 147.07 | * | PE |
| LOUISVILLE | W4CN | 147.78 | 147.18 | * | PE |
| LOUISVILLE | N4KWT | 147.87 | 147.27 | N | |
| LOUISVILLE | KQ9Z | 147.96 | 147.36 | * | |
| LYNCH/BLACK MT | N4IZD | 147.945 | 147.345 | N | |
| MARION | KA4FGA | 147.705 | 147.105 | N | |
| MARION | KA4FGA | 147.885 | 147.285 | N | |
| MAYFIELD | WA4NAR | 147.84 | 147.24 | N | |
| MAYTOWN | AK4U | 146.28 | 146.88 | * | PLR |
| MIDDLESBORO | W4PPM | 146.175 | 146.775 | N | |
| MOREHEAD | K4GFY | 146.31 | 146.91 | N | |
| MT. STERLING | WD4KNE | 147.93 | 147.33 | N | P |
| MURRAY | WB4NTB | 146.34 | 146.94 | * | A |
| NICHOLASVILLE | WB4CWF | 144.89 | 145.49 | * | P |
| OWENSBORO | NW4A | 147.63 | 147.03 | N | |
| OWINGSVILLE | N4TLP | 147.675 | 147.075 | N | A |
| OXFORD | WD8PRH | 144.63 | 145.23 | N | AL |
| PADUCAH | K4CUW | 146.16 | 146.76 | N | |
| PADUCAH | W4WQ | 147.66 | 147.06 | N | |
| PAINTSVILLE | AK4U | 146.19 | 146.79 | * | PL |
| PHELPS | KJ4YK | 147.69 | 147.09 | * | |
| PIKEVILLE | N4IWZ | 144.55 | 145.15 | * | RP |
| PIKEVILLE | KM4IV | 146.25 | 146.85 | N | ELR |
| PIKEVILLE | WB4GEL | 147.87 | 147.27 | N | P |
| PRESTONSBURG | K4ICN | 144.69 | 145.29 | * | RO |
| PRINCETON | W4KBL | 146.07 | 146.67 | N | |
| PROVIDENCE | N4IUI | 147.93 | 147.33 | N | |
| RABBIT HASH | WA4OCP | 146.355 | 146.955 | N | |
| RINEYVILLE | KE4NS | 146.355 | 146.955 | * | |
| SALEM | N4IL | 147.915 | 147.315 | N | |
| SALYERSVILLE | AK4U | 147.90 | 147.30 | * | L |
| SHELBYVILLE | KE4LR | 147.60 | 147.00 | * | P |
| SOMERSET | N4AI | 146.28 | 146.88 | N | |
| SPRINGFIELD | WA4SJH | 147.90 | 147.30 | * | A |
| UNION CITY (TN) | WA4YGM | 146.10 | 146.70 | N | |
| VERSAILLES | WA4ZXK | 146.13 | 146.73 | * | |
| WALTON | K4CO | 147.975 | 147.375 | N | |
| WASHINGTON | WA4WMM | 144.87 | 145.47 | N | C |
| WHTSBRG/PINE MT. | WD4PDJ | 147.99 | 147.39 | N | |
| WINCHESTER | WB4ASZ | 147.72 | 147.12 | * | AE |

### 220 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ASHLAND | KC4QK | 222.34 | 223.94 | N | |
| LEXINGTON | WB8VMI | 222.14 | 223.74 | * | |
| LOUISVILLE | KA4MKT | 222.70 | 224.30 | N | |
| LOUISVILLE | KB4VEZ | 222.82 | 224.42 | N | |
| LOUISVILLE | W4MOP | 223.22 | 224.82 | N | P |
| PIKEVILLE | WB4F | 222.98 | 224.58 | N | |
| PIKEVILLE | N4ETG | 223.02 | 224.62 | N | A |
| VERSAILLES | WA4ZXK | 222.62 | 224.22 | * | P |

**This SERA Official
Repeater Index Reflects
Changes thru October 15, 1990**

# COORDINATION POLICY AND GUIDELINES
# of the
# SOUTHEASTERN REPEATER ASSOCIATION, Inc.

Representing Coordination and UHF/VHF Interests throughout Kentucky, Georgia, Mississippi,
North Carolina, South Carolina, Tennessee, Virginia, and West Virginia

Revised and Adopted January, 1987. Latest Revision July, 1990.

A guide explaining rules for SERA coordinators and recommendations governing the coordinating, operating and maintaining of repeaters in the VHF/UHF spectrum as set forth according to the FCC, and by SouthEastern Repeater Association, Inc. (SERA), the recognized Coordinating Body of Member States in the Southeastern United States.

## • INTRODUCTION

The SERA Coordination Policy and Guidelines were re-written at the request of the Board of Directors and approved at the Annual Meeting in January, 1987. The re-write was required to update an old Coordination policy, and to coincide with new FCC rules and regulations concerning Repeater Councils, repeater owners and users, and coordination of repeater frequencies in general. The re-write committee sought to cover every area involving repeaters and their coordination. The re-write was based on FCC information and rules governing the operation of Repeater Councils across the nation. The policy is written in such a way as to explain in detail what is required by FCC regulations, and recommendations as to the procedure for coordination when putting a repeater on the air. Interference and arbitration is spelled out, so repeater owners and users will know just how they, SERA and the FCC will stand on the issues. This document covers in detail recommended allocations to various modes of operation in the Amateur Service on VHF/UHF, and with the SERA recommended "Frequency Spectrum Utilization Plan", carefully spells out where operators may operate in accordance with FCC rules and SERA operational plans. The Committee made every effort to give full capability to every Amateur in every mode that is possible, in a display of fairness to all concerned. By incorporating this far-reaching Coordination Policy and Guideline Document, SERA feels that the best interest of all Amateurs will be served over the years to come on VHF/UHF. As the RF spectrum becomes more crowded in the future, the adherence to these Guidelines by all will have paved the way for a future of pleasing operating on the VHF/UHF bands in our area, and good relationships among repeater owners and repeater users everywhere throughout SERA territory. Although coordination is strictly a voluntary decision by individual repeater owners, and even though FCC rules do not require coordination with coordination councils, they do state that in cases of conflict, the "uncoordinated" system bears the primary responsibility of solving the dispute. SERA Coordination guidelines are written as such for those who wish to coordinate, giving a clear expectation of what is required by the repeater owner and the coordinator if he wishes to be placed on record as coordinated by SERA. Voluntary compliance by repeater owners and users is what will continue to make the system work as it has since 1971.

## • POLICY 1 - General Information

Originally formed in 1971 as the North Carolina FM Repeater Association, in 1973, becoming the Carolinas-Virginia Repeater Association, Inc., and in 1981, CVRA-SouthEastern Repeater Association, Inc. (CVRA-SERA) and in 1987, SouthEastern Repeater Association, Inc. (SERA), the Association is the recognized amateur frequency coordinating body for the following geographical areas, herein called DISTRICTS:

*(A)* the autonomous state of NORTH CAROLINA,

*(B)* the state of VIRGINIA, south of a line formed by the 38-degree parallel of latitude extending from the Atlantic Ocean, west to U.S. Route 33, then following Rte. 33 to the West Virginia State line,

*(C)* the autonomous state of SOUTH CAROLINA,

*(D)* the state of WEST VIRGINIA, except an easternmost area referred to as the "panhandle", which is made up of the counties of: Berkeley, Hampshire, Hardy, Jefferson, and Morgan,

*(E)* the autonomous state of TENNESSEE,

*(F)* the autonomous state of KENTUCKY,

*(G)* the autonomous state of GEORGIA,

*(H)* the autonomous state of MISSISSIPPI.

## • POLICY 2 - Fixed Coordination

SERA coordinates only the types of FIXED Amateur transmitting facilities in those Amateur segments as authorized by the FCC:

*(A)* Repeaters *(B)* Link/control *(C)* Auxiliary stations

By virtue of the SERA Board of Directors recognition of organized Statewide Digital Communications organizations, SERA recommends allocation of frequencies for packet/digital radio, and delegates the RECOGNIZED Digital groups the task of ASSIGNING digital systems and operation within the allocated frequencies. (It should be noted that a Digipeater is usually a simplex operating system. Duplex Digital systems utilizing repeater FM input AND output pairs are classified as Repeaters, operating Digital, and therefore should be coordinated by SERA as any other FM repeater pair.)

## • POLICY 3 - Simplex Frequencies

SERA also recognizes and will preserve recommended FM Simplex frequencies which fall within the SERA Frequency Utilization Plan. These simplex frequencies should not be used for Digipeaters, although simplex digital keyboard-to-keyboard operation is permitted as is CW, RTTY or other FM simplex operations.

SERA Frequency Coordinators coordinate repeater and link frequencies on a basis of making maximum frequency utilization of the various bands. This has proven successful in our area with voluntary compliance in the past. Our Frequency Coordinators will continue to maintain this maximum utilization tailored to the area being coordinated in the future.

Recommended Repeater Frequency Utilization:

*(A)* 10-METERS: Ten meter pairs are issued low-in, high-out with a 100 khz offset. Channel spacing is 20 khz.

*(B)* 6-METERS: The six meter repeater pairs are issued low-in, high-out, and a 1 mhz. split. Channel spacing is 20 khz.

*(C)* 2-METERS: 2-Meter pairs are issued with (plus) +600 khz offset and 15 khz channel spacing above 147 mhz; (minus) -600 khz offset and 15 khz spacing between 146 and 147 mhz; and (minus) -600 khz offset and 20 khz channel spacing below 146 mhz.

*(D)* 220 MHZ: All 220 mhz pairs are issued with a (minus) -1.6 mhz offset and 20 khz channel spacing.

*(E)* 440 MHZ: All 440 mhz pairs are issued with (plus) +5 mhz offset - high-in, low-out and 25 khz channel spacing.

*(F)* 902 MHZ: All 902 mhz pairs are issued with (minus) -12 mhz (low-in, high-out) and 100 khz channel spacing. (To be changed to 50 khz, then 25 khz channel spacing when limitations require.)

*(G)* 1240 MHZ: All 1.2 ghz pairs are issued with (minus) -20 mhz offset -low-in, high-out and 100 khz channel spacing.

*(H)* 2300 MHZ: SERA has voted to adopt the national 2.3 ghz bandplan when it becomes established.

## • POLICY 4 - Frequency Coordinators

SERA Frequency Coordinators are the Directors, Vice Directors and their Assistants in each District. Their job is to make maximum use of recommended guidelines through mutual cooperation of repeater owners and SERA to offer coordination with maximum benefit to both owners and users of repeater systems.

## • POLICY 5 - Repeater Coordination Parameters

Under normal circumstances, SERA maintains the following recommended repeater spacing parameters for coordination:

*(A)* CO-CHANNEL* - 100 Miles (all bands, 2-Meters and above)

*(B)* ADJACENT CHANNEL -75 miles for 15 khz. channels of 2-Meters (146-147 mhz)

*(C)* 20 khz or more ADJACENT CHANNELS - 144-145 mhz portion of 2-Meters and all other VHF/UHF Repeater bands - 25 miles.

*It should be noted that 6-Meters and 10-Meters require special considerations when choosing Co-Channel spacing. Distances between co-channel repeaters on these bands will have to be worked out on an individual basis between the coordinator and the repeater owner.

## • POLICY 6 - Repeater Distance Variations

All channel spacing above is a norm, but may be adjusted as necessary at the discretion of the Frequency Coordinator for the District. Unusually high locations, such as on mountain peaks may require additional spacing, sometimes 150 miles more or less, whereas flat areas may only require the minimum spacing of 100 miles or less between repeaters. Spacing decisions are to be based on proposed location and height information of the repeater to be coordinated. The Frequency Coordinator has the discretion of making the spacing decisions at the time of coordinating each individual frequency pair.

## • POLICY 7 - Repeater Power Limitations

Although the FCC has eliminated specific power limitations of repeaters according to Height Above Average Terrain (HAAT) (Old Section 97.67(c)), they have left the decisions up to the individual local Coordinator. SERA adheres to this policy which is designed to give the Frequency Coordinators maximum flexibility in making use of the already crowded VHF spectrum. Our Frequency Coordinators have the ultimate decision to recommend power limitations of repeaters when coordinating, and (ERP) based on the coordinated repeater's HAAT, antenna system, and separation from co-channel and adjacent channel repeaters. For rule of thumb, SERA recommends the old FCC Repeater power rules.

Recommended Repeater Power:

*(A)* For 10-meters through 1-1/4-meters:

(1) Antenna HAAT 100 ft. & below - 800W ERP

(2) 100-500 feet HAAT - 400W ERP

(3) 500-1000 feet HAAT - 200W ERP

(4) Above 1000 feet HAAT - 100W ERP

*(B)* On the 450 band, and above, where permissable, the following power limitations apply, with certain limitations of the FCC rules:

(1) Up to 1000 feet HAAT - 800W ERP

(2) Above 1000 feet HAAT - 400W ERP

*(C)* As a rule of thumb SERA does not honor requests for repeater pairs that are contrary to our recommended plan, which has been designed for maximumn utilization of frequencies in our areas. We do not condone more than one input and only one output frequency for any repeater system on any one band.

## • POLICY 8 - Trustee - Holder of Record

The trustee is the holder of record of a coordination except in the case of a club sponsored repeater for which the sponsor is the holder of record and the appointed trustee acts on behalf of the sponsor. All requests for coordination or for changes in listing, callsign, sponsorship or trustee information for a repeater or link shall be submitted in writing on the appropriate SERA form over the signature of the trustee. Club sponsors may make trustee changes provided the request is signed by the new trustee and a club officer. The frequency coordination document will be sent to the trustee by mail. No frequency coordination may be made without all information being fully documented and submitted to the appropriate District Frequency Coordinator for his final approval.

## • POLICY 9 - Height, Power, Location Changes

When a repeater is relocated, or moved from a low to a higher site, or if the effective radiated power (ERP) is SIGNIFICANTLY increased, the SERA Frequency Coordinator shall be notified in writing on the appropriate SERA form. Frequency Coordination is based on information provided by the original plan of the repeater system. Any significant change in antenna, height, ERP or location will require the repeater to be re-coordinated. Trustees should contact their District Frequency Coordinator for information. The purpose of re-coordination is to verify that interference to/from other repeaters is not changed significantly. It is not to allow another repeater or potential repeater to be assigned the frequency.

NOTE: SIGNIFICANTLY - shall be a power change of 1-db, an antenna height change of more than fifteen feet, or a move of more than 1,500 feet horizontally. (For 1-db power change, SERA Frequency Coordinators use a factor of .75 or 1.25 of the original power. For instance: A 100 watt ERP station x .75 could be 75 or x 1.25, 125 watts ERP.)

## • POLICY 10 - Directional/Non-Directional

A repeater coordinated for a non-directional antenna and changing to a directional antenna OR a repeater coordinated for a directional antenna and changing to a non-directional antenna will require re-coordination in all cases (due to coverage changes and possible area changes of users) and will revert to a newly coordinated repeater status.

## • POLICY 11 - Relinquishing Repeater Pairs

Repeater pairs are normally not transferable, but revert back to the SERA frequency pool when relinquished in writing by the current holder. In situations where one sponsor sells his repeater system to another, the same frequency MAY be RE-COORDINATED to a newly named trustee, when the trustee (or sponsor's trustee) relinquishes the frequency in writing, and receipt of application of new sponsor and new trustee is received by the Frequency Coordinator.

## • POLICY 12 - Re-Coordination

Re-coordination of any system gives it the same status as a newly coordinated system as far as "first on channel" is concerned.

## • POLICY 13 - Trustee Responsibility

Trustees who shut down their repeater for a period of sixty (60) days or more, shall notify their Frequency Coordinator in writing. If the repeater is going off the air or moves permanently, or the sponsor sells out, the trustee shall write a letter to the Frequency Coordinator, relinquishing that frequency pair. Failure to return the annual datasheet may be construed as notification that the repeater is off the air and the frequency is available for reassignment.

## • POLICY 14 - Coordination Specifics

In terms of coordination, SERA has established policies dealing with priorities of repeater frequency requests.

*(A)* SERA recognizes two fundamental motivations for the establishment of an Amateur repeater:

> (1) As a service to other Amateurs living or traveling in a service area.
>
> (2) As an exercise in individual achievement on the part of the operator(s).

Both of these motivations are equally valid and in the traditional spirit of Amateur radio. However, in cases where these two rationales are in conflict, the motivation toward service must prevail over the individual achievement motivation. For example: The desire of an operator to set up a new repeater, largely for reasons of self-achievement, in an area already well-served by existing repeaters, must be accomodated in a way that does not detract from the existing area service in terms of co- or adjacent-channel interference.

Most large cities already have enough 2-meter repeaters for both emergency communications and ragchewing. Therefore small towns and rural areas that are greatly removed from those large cities may take priority in allocation of available frequency pairs. The rural areas can not go to other bands as easily as heavily populated areas because of limited Amateurs available for support on other bands.

*(B)* Repeater frequency assignments shall be chosen with as much, if not more weight given to the consequences of the transmissions of fixed and mobile stations on the input frequency as compared to the consequence of the output signal of the repeater itself. The majority of repeater coordination problems arise from individual stations keying other repeaters in addition to the one intended.

*(C)* Just as with FCC broadcast allocations, "first on frequency" is an accepted principle. Existing repeaters have first rights to continued use of their frequencies and reasonable service areas, and the effective use of an existing repeater should not be appreciably diminished by a new repeater.

However, as with FCC practice, these rights have great weight but are not absolute. For example: an established wide-area repeater should tolerate minor loss of fringe coverage and occasional inadvertent keying to allow a new repeater to provide needed service at a location distant from the first. "First on Frequency" carries no special rights to make a major facility change without reconsideration of the frequency assignment, as stated in Policy 9.

*(D)* The appropriateness of closed repeaters in some circumstances is recognized. However, requests for closed repeaters on the two-meter band, especially those having wide coverage areas will be discouraged. Rationale: Two-meter frequency pairs are a limited and valuable resource and should be made available to the majority of amateurs. It should be noted that upper VHF and UHF bands offer greater privacy to closed repeaters than is possible on two meters, thereby aiding in the problem of unwanted use of private repeaters.

*(E)* The trustee of a proposed repeater should actively participate with the Frequency Coordinator in his area in the task of surveying the frequencies and coverage area of existing systems, in order to select an appropriate frequency for the new repeater. In particular, the new repeater operator bears prime responsibility for whatever tests and listening periods are required at the proposed site. Logs of signals and locations heard at the proposed site, preferably for several weeks, may have great weight in frequency selection. The burden of proof of a clear frequency rests with the proposed repeater trustee when there is arbitration, although the final decision will be at the discretion of the Frequency Coordinator.

## • POLICY 15 - Good Operating Practices for Repeater Operation

Good operating practices are needed by repeater owners and users alike to achieve standards which are expected in the Amateur radio service. Although coordination councils have no actual "police" power to regulate Amateur frequencies, mutual cooperation is a must between the councils and repeater owners and users to make coordination work. Our coordination policy is an outline, which if followed by all on a voluntary basis, will allow the coordination plan to work, thereby providing a better climate for all within Amateur Radio. SERA Advocates:

*(A)* Repeater owners and users are expected to maintain good engineering and operating practices and common Amateur courtesy on Repeaters, as outlined in the FCC rules. Good Amateur practices promote harmony and prevent unwanted interference to other operating systems.

*(B)* Repeater users should use only necessary amount of power to operate into repeaters. This prevents unwanted keyups of other systems on the same frequency, and at times, on nearby adjacent channel repeaters.

*(C)* Repeater users should see that their equipment operates on frequency coordinated, and deviation should not exceed 5 khz peak deviation. (It should be noted that Digital operation may require a lower deviation setting on a transceiver to prevent overdeviation into a repeater or digital system.)

*(D)* Repeater ERP should balance with input receive capabilities. Excessive ERP will encourage operators to use more power to access system, thereby, creating an atmosphere of potential interference to other repeaters.

*(E)* Repeater owners are encouraged to use state of the art equipment, with sufficient filtering on input and outputs to prevent adjacent channel interference both on receive and transmit.

## • POLICY 16 - Requests for Coordination

Although voluntary from the beginning of repeater operations, coordination has played a large part in maintaining some degree of order in the placing of repeaters on the air. SERA strongly recommends Amateurs wishing to place a repeater on the air seek coordination and cooperate fully with their coordination council.

*(A)* Each respective repeater operator wishing to place a repeater on the air shall contact their SERA District Director who serves as Frequency Coordinator for that area and request the official "Application For Frequency Coordination" form. Upon receipt of the form, the applicant should provide the following information for accurate coordination:

(1) Desired Band and suggested frequency if any.

(2) Proposed location of repeater or link

(a) City or Town (supply published map or clear photocopy,specifically designating the location of the repeater, indicating measured distance from at least two (2) points and containing a horizontal error of not more than 1,000 feet. (For Example: 800 feet North of the intersection of State Route 110 and State Route 111, and 60 feet West of State Route 111 at that point.) Also include the nearest degree, minutes and seconds in Longitude and Latitude, as well as the Grid Locator Block, as prescribed in the ARRL Grid Locator maps.

(b) Indicate County and State

(c) Any other specifics as to exact location, such as fire tower, water tank, etc.

(3) Sponsor (club name or callsign(s) of sponsoring individual(s)).

(4) Trustee's name, callsign, mailing address and telephone number.

(5) Repeater callsign and whether open/closed?

(6) If needed, control frequencies and/or link frequencies for the system.

(7) Proposed ERP, (power out, less line loses, equals power to the antenna, times gain of antenna), antenna height (Use HAAT method).

(8) Directional or non-directional system. (If directional, supply manufacturers pattern applicable for your mounting method. If home-made, provide an accurately drawn pattern of major and minor lobes.) Indicate whether vertical or horizontal pattern.

(9) Other features which will be included in system: autopatch, link, tone access, emergency power, etc.

*(B)* SERA must have control/link frequency information for Frequency Coordinator's use. This information will be held confidential and not be published. All control/link frequencies must be within the prescribed portion of the band.

*(C)* While discussion with the Frequency Coordinator relative to coordination is welcomed, no actions will be taken until a complete application, in writing, providing all required information is received.

*(D)* New SERA coordinations are issued to the trustee named on the application and are valid for 6 months from the date of issue. The repeater should be operational within this period. If unavoidable circumstances prevent the new repeater from being placed on the air, an extension of the coordination period may be given by the Frequency Coordinator. Upon receipt of a written extension request by the trustee, outlining problems and reasons for requested extension, the Frequency Coordinator may grant the request if it is deemed the trustee has actively tried to get the repeater on the air.

*(E)* Trustees of new repeaters are responsible for notifying the Frequency Coordinator in writing when his new machine is considered on the air in its permanent condition and under the specifications of the original coordination request.

*(F)* Although the FCC no longer requires submission of system diagrams and other pertinent data, including the logging of repeater operation, repeater sponsors are still responsible for having a complete historical data sheet and system descriptions in the hands of the trustee, if needed. Further, it is highly recommended that repeater sponsors keep a copy of the SERA Coordination Policies and the sponsor or trustee have a knowledge of this document.

## • POLICY 17 - Repeater De-Coordination

To preserve integrity in coordination, and to maintain accurate records, Coordinators must make certain rules to be followed by repeater owners. If these requirements are not met, De-coordination must follow.

*(A)* The SERA Frequency Coordinator has the right under the following circumstances to revoke a coordinated frequency as outlined by the FCC:

(1) If a system is ordered permanently shut down by the FCC for any reason.

(2) If, within 6 months of coordination or reconfirmation of a pair or frequency, the existance of a working system on that pair or frequency cannot be confirmed, or if, the holder cannot accede to the request of the Frequency Coordinator to demonstrate the operation of such system within a reasonable time of such request, or if, there is no working system on the air and the trustee has not made a bona fide request for extension in writing.

(3) When a determination has been made, by means of research, that a pair has not been in use for an extended period of time, the Frequency Coordinator will send by certified mail, a status request letter to the sponsor or trustee of (record. Should no response be received within 30 days of the date of mailing of this letter, the coordination/frequency pair will be rescinded. If the holder replies within30 days requesting that the coordination be maintained, the Frequency Coordinator may issue a reconfirmation,which will be valid for six months from its date of issue.

(4) If, in the course of research, an allocation is determined to

be vacant and the trustee of record cannot be located by certified mail within a reasonable period of time.

(5) If the trustee of a system consistently violates good engineering and/or Amateur practices by:

(a) Operating his system with excessive deviation, with spurious emissions, or so far off frequency as to cause harmful interference to adjacent channels.

(b) Bears primary responsibility in a case of interference to another system and refuses to cooperate with other trustees involved and/or the Frequency Coordinator, after repeated requests.

*(B)* When a de-coordination act is initiated, the Frequency Coordinator will turn over documentation of the problem to a review board (as defined in Policy 19, "Interference Review Procedures". If the review board upholds the Frequency Coordinator's suggestions, the Frequency Coordinator will then notify the appropriate Field Office of the FCC with a request that they take necessary action to eliminate the problem. This will be a final step deemed necessary by the Frequency Coordinator to resolve an interference problem.

(1) Various de-coordination procedures will be determined by the cause or reason for de-coordination by the individual Frequency Coordinator. In most cases the Frequency Coordinator will notify the trustee via Certified Mail, explaining pertinent facts.

(2) De-coordinated frequencies will be placed back into the frequency pool for future coordination by the individual Frequency Coordinators in that District.

(3) Re-assignment of de-coordinated frequencies will not take place until either:

(a) An interval of six (6) months has passed since notice or:

(b) Any pending litigation is resolved.

## • POLICY 18 - Interference Policies

Interference is something that will occasionally occur between two repeaters. Many times things can be worked out between owners and users. Sometimes additional help is needed.

SERA, the official coordinating body in the Southeast (see General Information section), maintains a policy of dealing with interference between repeater, owners, trustees and users. This policy is in accordance with FCC rulings and guidelines.

*(A)* If an uncoordinated repeater causes harmful interference to a coordinated repeater, the primary responsibility for correcting the interference rests with the trustee of the uncoordinated repeater.

*(B)* If both systems are coordinated, the trustee of the most recently coordinated system bears the primary responsibility for correcting the interference.

*(C)* In cases where a repeater in SERA territory is involved in interference with a system operated outside SERA territory, the Frequency Coordinator, when called upon will work with the Frequency Coordinator from the other territory and will adhere to the guidelines listed above when dealing with the outside repeater and Frequency Coordinator.

*(D)* If a repeater operator changes the location, antenna height, ERP, or other parameters of his system in a manner which causes harmful interference to other stations (especially in co-channel or adjacent-channel repeaters and their users), that repeater operator bears the primary responsibility for correcting the interference.

## • POLICY 19 - Interference Review Procedures

A policy of repeater interference review and arbitration procedures have been approved by SERA which provide equal fairness to all parties concerned.

*(A)* Repeater owners receiving harmful interference from another system or its operators should document times, conditions and callsigns, and describe the type of interference. (Band conditions should be observed in all cases. Abnormal conditions will not be considered a reason for complaining about interference.) The trustee of the repeater receiving interference should contact the trustee of the interfering repeater with a letter, outlining the problem and include documentation.

*(B)* If all negotiation attempts fail and the interference problem cannot be solved with the trustee of the interfering repeater, the trustee should then contact his District SERA Director by letter, outlining the problem and other documentation available. Attempts to contact the other trustee should also be explained in detail.

*(C)* If the Frequency Coordinator is called upon, he will need a complete documented history of both repeaters, their coordinated status, dates, times and other pertinent information from both repeater trustees. The SERA Frequency Coordinator cannot handle the job alone and will need cooperation from individuals involved.

*(D)* If the Frequency Coordinator cannot resolve the problem, using the guidelines explained above, and the operator bearing responsiblity for the interference will not cooperate and will not take reasonable steps to solve the problem, or refuses to cooperate with the Frequency Coordinator in any reasonable way, the SERA Frequency Coordinator will (1) Either by letter or telephone, consult the Engineer-in-Charge of the local FCC Field Office, outlining the pending problem. He will also notify the repeater operator of his plans, prior to actual contact, to give that operator an opportunity to respond to the Coordinator concerning this latest effort. (2) Upon consultation with the Engineer-In-Charge of the FCC office, the Coordinator may, acting on advice, continue negotiations with the repeater operator, or proceed to turn over the documentation to a review board, which will be named by the SERA President. This board shall have 21 days to either uphold the suggested action of the Frequency Coordinator, or recommend further investigation and/or negotiation.

(1) If the review board upholds the decision of the Frequency Coordinator, the Frequency Coordinator shall within (10) days, by Certified Mail, inform the responsible repeater owner that he must agree, in writing, to binding arbitration or his frequency will be De-coordinated.

(2) If the responsible repeater operator does not agree to the above described procedure, or does not not comply with the decision of the arbitration committee, the Frequency Coordinator shall notify the responsible repeater owner by Certified Mail, with return receipt that his frequency has been decoordinated. The Frequency Coordinator will then write the Field Office of FCC under whose jurisdiction the interfering repeater is located, requesting enforcement of the current wording of the rules governing the Amateur service to the fullest extent of the law. The Frequency Coordinator will be responsible for including with the request, an outline of all procedures taken, and documentation that proper procedures were followed. Copies of all correspondance will also be included. At this point, final action rests with the involved FCC Engineer-

in-Charge within that District.

(a) If the responsible repeater operator agrees to binding arbitration, SERA will appoint one person, being a licensed Amateur, knowledgeable of repeater operations, who may or may not be a SERA member, but cannot be an Officer of SERA, or Director or Vice-Director or Appointee of the District involved, or any other coordinating entity. The responsible repeater operator will appoint the person of his choosing (except for limitations of Policy 19 (2)(b) below as his representative on the arbitration committee. These two persons so appointed shall agree on a third member of the committee, with the third member so chosen to be the chairperson of the arbitration committee. The decision of the committee will be final.

(b) No professional arbitrators are to be used, as it is believed Amateur radio problems are best understood by Amateurs. All members of the arbitration committee must be licensed Amateurs. No officer or appointee of any other coordinating entity may be a member of the arbitration committee.

(c) SERA will pay from its treasury one half of the reasonable and necessary out-of-pocket expenses incurred by the arbitration committee, as determined by the executive committee, but will include no amount for services rendered.

*(E)* All cases of apparent malicious interference will be forwarded to the respective FCC Field Office having jurisdication over the area in which the source of interference is located.

*(F)* The FCC has adopted rules to reinstate the definition of the National Radio Quiet Zone in Part 97.3(k). The area bounded by 39-degrees, 15-minutes on the North; 78-degrees, 30 minutes on the East; 37-degrees, 30-minutes on the South; and 80-degrees, 30-minutes on the West. The Quiet Zone is an area where sensitive radio astronomy operations at Green Bank, WV., and the Naval Research Laboratory at Sugar Grove, WV are protected. Amateurs wishing to place repeaters, beacons or other automatic transmitting devices within the Quiet Zone area, should first contact the SERA Frequency Coordinator to get a frequency, then upon receipt of the pair, write the Green Bank Observatory for permission to place the system in operation. Existing systems in the Quiet Zone cannot change frequency, power, or antenna pattern without specific permission from the officials of both Green Bank and Sugar Grove.

*(G)* (Reserved for Pave Paws system in Georgia)

## • POLICY 20 - Repeater Indexes and Published Listings

Aside from Coordination of repeaters in the Southeast, SERA must maintain an accurate data-base of information readily available to all Directors and officers of the organization.

*(A)* SERA maintains a computerized data base of all known repeaters in the Districts which it serves. The repeater listing portions are updated quarterly for publication in the REPEATER JOURNAL, the official publication of SERA, and are as correct as can be ascertained. The published listing allows only pertinent information about repeaters to be printed. Confidential information, such as link/control frequencies, private numbers, etc. are not published. Newly coordinated frequencies may sometimes not be published, even though they will be contained on the master data base.

*(B)* The REPEATER JOURNAL must publish all known operational repeaters, coordinated or uncoordinated to satisfy the requirements of our IRS Tax Exempt status. Repeaters operating contrary to the officially recommended SERA frequency utilization plan are marked as such in the index. This does not mean, by publishing these repeaters that SERA condones such operations. It basically means that these repeaters are operated by their trustees contrary to SERA Coordination policies.

*(C)* The REPEATER JOURNAL repeater index is copyrighted and cannot be reproduced in any "for profit" publication without explicit permission in writing from SERA. The index may be reproduced by any person or club as long as any published vehicle is not sold. All other rights reserved.

*(D)* Although SERA makes every attempt to publish correct and accurate indexes, we cannot be responsible for errors in listings, including those repeaters which may not be on the air, or not having listed some repeaters that are on the air. In cases where repeaters are listed as proposed (P), or under construction (C), for one year and no further word is issued to the Repeater Index manager, as to whether they have been put on the air or not, the repeater will be taken off the published index until clarification can be obtained as to the exact status of the repeater.

*(E)* The REPEATER JOURNAL may or may not publish the status of a repeater as to whether it is coordinated or not. That information, (if known) is contained in the SERA Repeater Data Base and the individual Frequency Coordinator's data base.

*(F)* Repeater sponsors or owners are responsible for seeing that their repeaters are accurately listed and that all pertinent information is contained in the SERA Repeater Data Base.

SERA Coordination Policies and Guidelines Rewrite-Adopted by the Full Board of Directors in January 1987. An updated rewrite for clarification, by titling and codification of the individual paragraphs, and deletion of the CVRA title from the Organization was made and approved by the Full Board in January 1989. Boundary changes for the Kentucky District and the addition of the Mississippi District were made in August, 1989. Clarifications regarding club coordinations and trustee responsibilities (Policies 8, 9, and 13) made July, 1990.

# SERA Frequency Utilization Band Plans

## 2-Meter Frequency Utilization Plan

144.00 - 144.05........ EME(CW)
144.05 - 144.06........ Propagation Beacon
144.06 - 144.10........ CW & Weak Signals
144.10 - 144.20........ EME & Weak Signals
144.20 ............. National Calling Frequency
144.20 - 144.30........ General SSB
144.30 - 144.50........ OSCAR Sub-band
144.51 - 144.89........ FM Repeater Inputs
144.90 - 145.00........ Weak Signals/FM Simplex
145.00 - 145.10........ Packet Operation
145.11 - 145.49........ FM Repeater Outputs
145.50 - 145.80........ Misc. Experimental Modes
145.80 - 146.00........ OSCAR Sub-bands
146.01 - 146.505...... FM Repeater Inputs
146.40 - 146.595...... FM Simplex
146.61 - 147.39........ FM Repeater Outputs
147.405 - 147.495...... FM Repeater Inputs
147.51 - 147.585...... FM Simplex
147.60 - 147.99........ FM Repeater Inputs

## 2-Meter Repeater Pairs (600 khz in/out)

**20 khz. spacing between channels - sub-band**

144.51 - 145.11
144.53 - 145.13
144.55 - 145.15
144.57 - 145.17
144.59 - 145.19
144.61 - 145.21
144.63 - 145.23
144.65 - 145.25
144.67 - 145.27
144.69 - 145.29

144.71 - 145.31
144.73 - 145.33
144.75 - 145.35
144.77 - 145.37
144.79 - 145.39
144.81 - 145.41
144.83 - 145.43
144.85 - 145.45
144.87 - 145.47
144.89 - 145.49

**15 khz. spacing between channels**

146.010 - 146.610
146.025 - 146.625
146.040 - 146.640
146.055 - 146.655
146.070 - 146.670
146.085 - 146.685
146.100 - 146.700
146.115 - 146.715
146.130 - 146.730
146.145 - 146.745
146.160 - 146.760
146.175 - 146.775
146.190 - 146.790
146.205 - 146.805
146.220 - 146.820
146.235 - 146.835
146.250 - 146.850
146.265 - 146.865
146.280 - 146.880
146.295 - 146.895
146.310 - 146.910
146.325 - 146.925
146.340 - 146.940

146.355 - 146.955
146.370 - 146.970
146.385 - 146.985
146.400 - 147.000
146.415 - 147.015
146.430 - 147.030
146.445 - 147.045
146.460 - 147.060
146.475 - 147.075
146.490 - 147.090
146.505 - 147.105
147.405 - 146.805
147.420 - 146.820
147.435 - 146.835
147.450 - 146.850
147.465 - 146.865
147.480 - 146.880
147.495 - 146.895
147.600 - 147.000
147.615 - 147.015
147.630 - 147.030
147.645 - 147.045
147.660 - 147.060

147.675 - 147.075
147.690 - 147.090
147.705 - 147.105
147.720 - 147.120
147.735 - 147.135
147.750 - 147.150
147.765 - 147.165
147.780 - 147.180
147.795 - 147.195
147.810 - 147.210
147.825 - 147.225
147.840 - 147.240
147.855 - 147.255
147.870 - 147.270
147.885 - 147.285
147.900 - 147.300
147.915 - 147.315
147.930 - 147.330
147.945 - 147.345
147.960 - 147.360
147.975 - 147.375
147.990 - 147.390

### Digital/Packet Simplex Frequencies

145.01 145.03 145.05 145.07 145.09
145.61 145.63 145.65 145.67 145.69

### FM Simplex Frequencies

146.40* 146.415* 146.43* 146.445* 146.46* 146.475*
146.49* 146.505* 146.52 146.535 146.55 146.565
146.58 146.595 147.51 147.525 147.54 147.555
147.57 147.585

*Permitted unless would cause interference to repeater input.

## 440 MHZ Frequency Utilitization Plan

420.00 - 426.00........ ATV Repeater w/421.25 Video, Control Links, Experimental.
426.00 - 430.00........ ATV Simplex w/427.25 Video Car.
430.00 - 431.00........ Digital/Packet
432.00 - 432.07........ EME
432.07 - 432.08........ Propagation Beacons
432.08 - 432.10........ Weak Signal CW
432.10 ............. Calling Frequency
432.10 - 432.125...... Mixed/Weak Signal
432.125 - 432.175...... OSCAR Inputs
432.175 - 433.00........ Mixed/Weak Signal
433.00 - 435.00........ Auxilary/Repeater Links
435.00 - 438.00........ International Satellite
438.00 - 444.00........ ATV Rpt w/439.25 Video/Rpt. Links
442.00 - 444.975...... Repeater Outputs
445.00 - 447.00........ Aux/Control Links, Simplex
446.00 ............. National Simplex Frequency
447.00 - 449.975...... Repeater Inputs

## 440 MHZ Repeater Pairs (5 mhz in/out)

**25 khz spacing between channels**

447.000 - 442.000
447.025 - 442.025
447.050 - 442.050
447.075 - 442.075
447.100 - 442.100
447.125 - 442.125
447.150 - 442.150
447.175 - 442.175
447.200 - 442.200
447.225 - 442.225
447.250 - 442.250
447.275 - 442.275
447.300 - 442.300
447.325 - 442.325
447.350 - 442.350
447.375 - 442.375
447.400 - 442.400
447.425 - 442.425
447.450 - 442.450
447.475 - 442.475
447.500 - 442.500
447.525 - 442.525
447.550 - 442.550
447.575 - 442.575
447.600 - 442.600
447.625 - 442.625
447.650 - 442.650
447.675 - 442.675
447.700 - 442.700
447.725 - 442.725
447.750 - 442.750
447.775 - 442.775
447.800 - 442.800
447.825 - 442.825
447.850 - 442.850
447.875 - 442.875
447.900 - 442.900
447.925 - 442.925
447.950 - 442.950
447.975 - 442.975
448.000 - 443.000
448.025 - 443.025
448.050 - 443.050
448.075 - 443.075
448.100 - 443.100

448.125 - 443.125
448.150 - 443.150
448.175 - 443.175
448.200 - 443.200
448.225 - 443.225
448.250 - 443.250
448.275 - 443.275
448.300 - 443.300
448.325 - 443.325
448.350 - 443.350
448.375 - 443.375
448.400 - 443.400
448.425 - 443.425
448.450 - 443.450
448.475 - 448.475
448.500 - 443.500
448.525 - 443.525
448.550 - 443.550
448.575 - 443.575
448.600 - 443.600
448.625 - 443.625
448.650 - 443.650
448.675 - 443.675
448.700 - 443.700
448.725 - 443.725
448.750 - 433.750
448.775 - 443.775
448.800 - 443.800
448.825 - 443.825
448.850 - 443.850
448.875 - 443.875
448.900 - 443.900
448.925 - 443.925
448.950 - 443.950
448.975 - 443.975
449.000 - 444.000
449.025 - 444.025
449.050 - 444.050
449.075 - 444.075
449.100 - 444.100
449.125 - 444.125
449.150 - 444.150
449.175 - 444.175
449.200 - 444.200
449.225 - 444.225

449.250 - 444.250
449.275 - 444.275
449.300 - 444.300
449.325 - 444.325
449.350 - 444.350
449.375 - 444.375
449.400 - 444.400
449.425 - 444.425
449.450 - 444.450
449.475 - 444.475
449.500 - 444.500
449.525 - 444.525
449.550 - 444.550
449.575 - 444.575
449.600 - 444.600
449.625 - 444.625
449.650 - 444.650
449.675 - 444.675
449.700 - 444.700
449.725 - 444.725
449.750 - 444.750
449.775 - 444.775
449.800 - 444.800
449.825 - 444.825
449.850 - 444.850
449.875 - 444.875
449.900 - 444.900
449.925 - 444.925
449.950 - 444.950
449.975 - 444.975

### Digital/Packet Simplex Frequencies

430.05 430.15 430.25 430.35 430.45 430.55 430.65 430.85 430.95
Note: 430.75 mhz is reserved for ATV Repeater Inputs

V 1.11 7/22/90

## 220 MHZ Frequency Utilization Plan

220.00 - 220.05........EME - (Earth/Moon/Earth)
220.05 - 220.06........Propagation Beacons
220.06 - 220.10........Weak Signal CW
220.10 .............Calling Frequency
220.10 - 220.50........Weak Signal/Experimental
220.50 - 221.00........Experimental/Control Frequencies
221.00 - 221.50........Packet/Digital
221.50 - 221.90........Experimental/Control Frequencies
221.90 - 222.00........Weak Signal Guard Band
222.00 - 222.05........EME
222.05 - 222.06........Propagation Beacons
222.06 - 222.10........Weak Signal CW
222.10 .............Calling Frequency
222.10 - 222.30........Reserved Sub-band
222.32 - 223.38........FM Repeater Inputs
223.42 - 223.90........FM Simplex
223.92 - 224.98........FM Repeater Outputs

**220 MHZ Repeater Pairs (1.6 MHZ in/out)**
**20 khz. spacing between channels**

| | | |
|---|---|---|
| 222.32 - 223.92 | 222.68 - 224.28 | 223.04 - 224.64 |
| 222.34 - 223.94 | 222.70 - 224.30 | 223.06 - 224.66 |
| 222.36 - 223.96 | 222.72 - 224.32 | 223.08 - 224.68 |
| 222.38 - 223.98 | 222.74 - 224.34 | 223.10 - 224.70 |
| 222.40 - 224.00 | 222.76 - 224.36 | 223.12 - 224.72 |
| 222.42 - 224.02 | 222.78 - 224.38 | 223.14 - 224.74 |
| 222.44 - 224.04 | 222.80 - 224.40 | 223.16 - 224.76 |
| 222.46 - 224.06 | 222.82 - 224.42 | 223.18 - 224.78 |
| 222.48 - 224.08 | 222.84 - 224.44 | 223.20 - 224.80 |
| 222.50 - 224.10 | 222.86 - 224.46 | 223.22 - 224.82 |
| 222.52 - 224.12 | 222.88 - 224.48 | 223.24 - 224.84 |
| 222.54 - 224.14 | 222.90 - 224.50 | 223.26 - 224.86 |
| 222.56 - 224.16 | 222.92 - 224.52 | 223.28 - 224.88 |
| 222.58 - 224.18 | 222.94 - 224.54 | 223.30 - 224.90 |
| 222.60 - 224.20 | 222.96 - 224.56 | 223.32 - 224.92 |
| 222.62 - 224.22 | 222.98 - 224.58 | 223.34 - 224.94 |
| 222.64 - 224.24 | 223.00 - 224.60 | 223.36 - 224.96 |
| 222.66 - 224.26 | 223.02 - 224.62 | 223.38 - 224.98 |

**FM Simplex Frequencies**

223.44 223.46 223.48 223.50 223.52 223.54
223.56 223.60 223.62 223.64 223.66 223.68
223.70 223.72 223.74 223.76 223.78 223.80
223.82 223.84 223.86 223.88 223.90

**Packet/Digital Frequencies**

221.05 221.15 221.25 221.35 221.45
223.40 223.42 223.58

## 10 Meter (23.3 - 29.7) Frequency Utilization Plan

29.300 - 29.500......OSCAR (satellites)
29.520 - 29.580......Repeater Inputs
29.600 .............Simplex
29.620 - 29.680......Repeater Outputs

**10 Meter Repeater Pairs (100 khz in/out)**

29.520 - 29.620
29.540 - 29.640
29.560 - 29.660
29.580 - 29.680

## 6 Meter Frequency Utilization Plan (to be reviewed at January 1991 mtg)

50.000 - 50.100......CW and Beacons
50.060 - 50.080......Auto Contr.Beacons
50.100 - 50.600......SSB & AM
50.110 .............SSB DX Calling Frequency
50.200 .............SSB National Calling Frequency
50.400 .............AM Calling Frequency
50.600 - 51.000......Experimental/Special Modes
50.700 .............RTTY Calling Frequency
50.800 - 50.980......R/C Model Radio Control
51.000 - 51.100......Pacific DX Window
51.100 - 52.000......FM Simplex
52.000 - 52.050......Pacific DX Window
52.000 - 54.000......FM Repeater and Simplex

**6-meter Repeater Pairs (1 mhz in/out)**
**20 khz spacing between channels**

| | | |
|---|---|---|
| 52.01 - 53.01 | 52.33 - 53.33 | 52.71 - 53.71 |
| 52.03 - 53.03 | 52.35 - 53.35 | 52.73 - 53.73 |
| 52.05 - 53.05 | 52.37 - 53.37 | 52.75 - 53.75 |
| 52.07 - 53.07 | 52.39 - 53.39 | 52.77 - 53.77 |
| 52.09 - 53.09 | 52.41 - 53.41 | 52.79 - 53.79 |
| 52.11 - 53.11 | 52.43 - 53.43 | 52.81 - 53.81 |
| 52.13 - 53.13 | 52.45 - 53.45 | 52.83 - 53.83 |
| 52.15 - 53.15 | 52.47 - 53.47 | 52.85 - 53.85 |
| 52.17 - 53.17 | 52.55 - 53.55 | 52.87 - 53.87 |
| 52.19 - 53.19 | 52.57 - 53.57 | 52.89 - 53.89 |
| 52.21 - 53.21 | 52.59 - 53.59 | 52.91 - 53.91 |
| 52.23 - 53.23 | 52.61 - 53.61 | 52.93 - 53.93 |
| 52.25 - 53.25 | 52.63 - 53.63 | 52.95 - 53.95 |
| 52.27 - 53.27 | 52.65 - 53.65 | 52.97 - 53.97 |
| 52.29 - 53.29 | 52.67 - 53.67 | 52.99 - 53.99 |
| 52.31 - 53.31 | 52.69 - 53.69 | |

**FM Simplex Frequencies**

52.49 52.51 52.525

## 33 cm Frequency Utilization Plan (to be reviewed January1991)

902.00 - 902.80........SSTV, FAX, ACSSB, Experimental
902.80 - 903.00........Reserved - EME CW Expansion
903.00 - 903.05........EME Exclusive
903.07 - 903.08........CW Beacons
903.10 .............CW, SSB Calling Frequency
903.40 - 903.60........Cross band linear translator inputs
903.60 - 903.80........Cross band linear translator outputs
903.80 - 904.00........Experimental Beacons Exclusive
904.00 - 906.00........Digital Communications
906.00 - 907.00........Narrow band FM Simlpex (25 khz channels)
906.50 .............National Calling Frequency
907.00 - 910.00........FM Repeater Inputs
910.00 - 916.00........ATV
916.00 - 918.00........Digital Communications
918.00 - 919.00........Narrow band FM Control links/Remote bases
919.00 - 922.00........FM Repeater Outputs
922.00 - 928.00........Wide band experimental, ATV, Simplex spread spectrum

**33 cm FM Repeater Pairs (12 mhz in/out)**
**100 khz spacing between channels**
(Note: SERA will coordinate the 33 cm band repeater pairs with 100 khz spacing between pairs until that portion fills, then 50 khz and finally 25 khz split spacing will be utilized in the future.

| | | |
|---|---|---|
| 907.10 - 919.10 | 908.10 - 920.10 | 909.10 - 921.10 |
| 907.20 - 919.20 | 908.20 - 920.20 | 909.20 - 921.20 |
| 907.30 - 919.30 | 908.30 - 920.30 | 909.30 - 921.30 |
| 907.40 - 919.40 | 908.40 - 920.40 | 909.40 - 921.40 |
| 907.50 - 919.50 | 908.50 - 920.50 | 909.50 - 921.50 |
| 907.60 - 919.60 | 908.60 - 920.60 | 909.60 - 921.60 |
| 907.70 - 919.70 | 908.70 - 920.70 | 909.70 - 921.70 |
| 907.80 - 919.80 | 908.80 - 920.80 | 909.80 - 921.80 |
| 907.90 - 919.90 | 908.90 - 920.90 | 909.90 - 921.90 |
| 908.00 - 920.00 | 909.00 - 921.00 | |

## MORE KENTUCKY REPEATERS

### 440 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ASHLAND | KA4MKG | 449.925 | 444.925 | N | C |
| ASHLAND | WB4TAT | 449.975 | 444.975 | * | |
| BOWLING GREEN | WD4MNI | 449.10 | 444.10 | * | LC |
| CUSTER | KE4NS | 449.975 | 444.975 | N | |
| ELIZABETHTOWN | W4BEJ | 449.80 | 444.80 | * | L |
| GLASGOW/CVCTY | KF4DC | 449.25 | 444.25 | * | |
| GRETHEL | KJ4VF | 444.525 | 449.525 | N | C |
| HENDERSON | N9APA | 449.50 | 444.50 | N | |
| HIGHLAND HEIGHTS | WA4OCP | 449.35 | 444.35 | N | |
| LA GRANGE | N4RBL | 449.40 | 444.40 | * | |
| LEXINGTON | WD4EJA | 449.95 | 444.95 | N | |
| LOUISVILLE | N4ORL | 447.00 | 442.00 | N | RP |
| LOUISVILLE | N4KWT | 447.225 | 442.225 | N | |
| LOUISVILLE | WA4MLF | 447.50 | 442.50 | * | AR |
| LOUISVILLE | WD9EQC | 448.50 | 443.50 | * | |
| LOUISVILLE | KA4WTT | 449.10 | 444.10 | * | PER |
| LOUISVILLE | WB4ZZD | 449.30 | 444.30 | N | |
| LOUISVILLE | W4MOP | 449.50 | 444.50 | N | P |
| LOUISVILLE | WA4AUN | 449.70 | 444.70 | N | |
| LYNCH/BLACK MT | N4IZD | 448.10 | 443.10 | N | |
| MAYTOWN | AK4U | 449.20 | 444.20 | * | L |
| OWENSBORO | WB4AOH | 439.25 | 427.25 | N | V |
| SPRINGFIELD | WA4SJH | 444.60 | 449.60 | * | |

## MISSISSIPPI REPEATERS

### 10 METERS

| | | | | | |
|---|---|---|---|---|---|
| POPLARVILLE | WA5WRE | 29.52 | 29.62 | * | A |

### 6 METERS

| | | | | | |
|---|---|---|---|---|---|
| HATTIESBURG | N5ILU | 52.05 | 53.05 | * | L |
| LAUREL | N5DWU | 52.01 | 53.01 | * | L |

### 2 METERS

| | | | | | |
|---|---|---|---|---|---|
| ABERDEEN | WB5USN | 147.87 | 147.27 | N | A |
| ACKERMAN | NO5N | 147.72 | 147.12 | N | |
| AMORY | KB5DSN | 147.69 | 147.09 | N | |
| BAY ST. LOUIS | N5GY | 146.10 | 146.70 | N | |
| BAY ST. LOUIS | K0VNO | 146.25 | 146.85 | N | |
| BILOXI | K5OS | 146.13 | 146.73 | N | |
| BILOXI | K5TYP | 146.19 | 146.79 | N | |
| BLUE MT | N5CAX | 146.07 | 146.67 | N | A |
| BOONEVILLE | WA5TEF | 144.59 | 145.19 | * | |
| BUDE | K5JMD | 146.25 | 146.85 | N | |
| CHATAWAH | WB5GOJ | 144.71 | 145.31 | N | PR |
| CLEVELAND | K5BWW | 146.25 | 146.85 | N | |
| CLINTON | AA5JC | 147.945 | 147.345 | N | PR |
| COLUMBIA | KB5EZN | 147.885 | 147.285 | N | P |
| COLUMBUS | K5BX | 147.60 | 147.00 | * | A |
| CORINTH | WB5VOJ | 146.325 | 146.925 | N | |
| CORINTH | K5UFH | 146.40 | 147.00 | N | |
| ELLISVILLE | N5DWU | 147.465 | 146.865 | * | PLT |
| FLORENCE | W5AXQ | 146.16 | 146.76 | N | |
| GREENVILLE | WA5MBA | 146.22 | 146.82 | N | A |
| GREENWOOD | KA5TQY | 146.115 | 146.715 | N | |
| GRENADA | WB5LVA | 146.10 | 146.70 | N | |
| GULFPORT | KA5CYR | 144.73 | 145.33 | N | A |
| GULFPORT | KA5VFU | 147.975 | 147.375 | N | |
| HATTIESBURG | KA5NNX | 144.77 | 145.37 | N | |
| HATTIESBURG | KC5K | 147.66 | 147.06 | * | LRB |
| HATTIESBURG | W5CJR | 147.96 | 147.36 | * | |
| HERNANDO | K5VV | 146.31 | 146.91 | * | A |
| INVERNESS | WA5UDQ | 147.78 | 147.18 | N | |
| IUKA | WB5MFK | 146.25 | 146.85 | N | A |
| JACKSON | W5ITL | 146.04 | 146.64 | N | |
| JACKSON | W5NNZ | 146.28 | 146.88 | N | |
| JACKSON | KA5SBK | 146.34 | 146.94 | N | |
| JACKSON | NC5Y | 147.675 | 147.075 | N | AT |
| KOSCIUSKO | W5LWC | 146.25 | 146.85 | N | |
| LAUREL | N5KKG | 146.01 | 146.61 | * | A |
| LAUREL | WV5D | 146.43 | 147.03 | N | |
| LOUISVILLE | WB5ZAG | 147.96 | 147.36 | N | A |
| MAGEE | KG5MZ | 146.22 | 146.82 | * | TLC |
| MAGEE | KA5LNY | 147.90 | 147.30 | * | P |
| MCCOMB | K5JMD | 146.34 | 146.94 | N | A |
| MENDENHALL | K5HYE | 144.51 | 145.11 | * | PR |
| MERIDIAN | W5DEJ | 146.10 | 146.70 | * | A |
| MERIDIAN | KA5MJM | 146.37 | 146.97 | * | RP |
| MONTICELLO | N5JHK | 147.615 | 147.015 | * | PR |
| MOOREVILLE | WB5NAY | 146.04 | 146.64 | N | A |
| N.BILOXI/D'IBERV | KC5IF | 144.81 | 145.41 | N | |
| NATCHEZ | W5KHB | 146.085 | 146.685 | * | |
| NATCHEZ | K5OCM | 146.31 | 146.91 | N | A |
| NATCHEZ | K5SVC | 147.96 | 147.36 | N | |
| NEW HEBRON | N5MRS | 147.69 | 147.09 | * | AEAT |
| OCEAN SPRINGS | W5LDD | 147.63 | 147.03 | * | A |
| OLIVE BRANCH | KA5WMH | 147.825 | 147.225 | N | |
| PASCAGOULA | N5AAY | 146.28 | 146.88 | N | A |
| PASCAGOULA | KB5KYB | 146.37 | 146.97 | N | PR |
| PEARL | N5III | 147.75 | 147.15 | N | |
| PETAL | N5LRQ | 147.735 | 147.135 | * | |
| PHILADELPHIA | N5EPP | 147.93 | 147.33 | * | |
| PONTOTOC | WB5NAY | 147.98 | 147.38 | N | |
| POPLARVILLE | WA5WRE | 144.61 | 145.21 | * | A |
| PORT GIBSON | KE5WO | 146.025 | 146.625 | N | |
| PRENTISS | WB5UNA | 147.99 | 147.39 | * | |
| SENATOBIA | KB5DMT | 146.385 | 146.985 | N | |
| STARKVILLE | W5VZF | 146.13 | 146.73 | * | A |
| TUPELO | AI5R | 147.84 | 147.24 | N | A |
| VICKSBURG | WJ5L | 144.69 | 145.29 | N | |
| VICKSBURG | WB5SXK | 147.87 | 147.27 | N | |
| WATER VALLEY | WB5QFX | 146.40 | 147.00 | N | |
| WAYNESBORO | N5HXG | 147.705 | 147.105 | N | PR |
| WEST POINT | KO5S | 146.19 | 146.79 | N | A |
| WIGGINS | KB5DZJ | 144.67 | 145.27 | * | |

### 220 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ACKERMAN | NM5D | 223.18 | 224.78 | N | |
| ACKERMAN | NM5D | 223.22 | 224.82 | N | |
| BAY ST. LOUIS | K5GY | 223.10 | 224.70 | N | |
| BAY ST. LOUIS | K0VNO | 223.28 | 224.88 | N | |
| BILOXI | K5TYP | 222.90 | 224.50 | N | |
| ELLISVILLE | N5DWU | 222.80 | 224.40 | * | PL |
| GLEN | WB5HKK | 223.92 | 224.52 | * | |
| PASCAGOULA | KB5KYB | 222.72 | 224.32 | N | PR |
| PONTOTOC | KE5ST | 223.30 | 224.90 | N | |

### 440 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ACKERMAN | NM5D | 448.65 | 443.65 | N | |
| ACKERMAN | NM5D | 449.90 | 444.90 | N | |
| BRANDON | NC5Y | 449.70 | 444.70 | N | |
| CLERMONT HARBOR | WD5BJT | 449.15 | 444.15 | N | A |
| ELLISVILLE | N5DWU | 449.675 | 444.675 | * | P |
| HATTIESBURG | W4KGJ | 448.70 | 443.70 | * | L |
| JACKSON | KB5CO | 449.00 | 444.00 | N | |
| JACKSON | KB5CO | 449.60 | 444.60 | N | PT |
| JACKSON | KB5CO | 449.80 | 444.80 | N | |
| JACKSON | KA5AGD | 449.975 | 444.975 | N | |
| LAUREL | AJ0X | 448.50 | 443.50 | * | AR |
| MENDENHALL | K5HYE | 448.60 | 443.60 | * | C |
| MERIDIAN | WA5WUX | 449.10 | 444.10 | * | PEL |
| MERIDIAN | KB5LTW | 449.40 | 444.40 | N | |
| N.BILOXI/D'IBERV | KC5IF | 446.55 | 444.55 | N | |
| NATCHEZ | N5IAT | 448.80 | 443.80 | N | A |
| NEW HEBRON | N5MRS | 449.525 | 444.525 | * | A |
| PONTOTOC | KE5ST | 449.65 | 444.65 | N | |
| POPLARVILLE | WA5WRE | 449.85 | 444.85 | * | |
| RICHTON | N5OCF | 449.625 | 444.625 | * | RP |
| STARKVILLE | W5VZF | 449.75 | 444.75 | * | |
| VICKSBURG | WB5TTE | 449.925 | 444.925 | N | PR |

## NORTH CAROLINA REPEATERS

### 10 METERS

| | | | | | |
|---|---|---|---|---|---|
| MAYODAN | WA4ACP | 29.56 | 29.66 | N | T |
| NEWPORT | K4GRW | 29.56 | 29.66 | * | PR |
| WILKESBORO | KC4XE | 29.52 | 29.62 | * | L |

### 6 METERS

| | | | | | |
|---|---|---|---|---|---|
| ANDERSON MT. | WA4PXV | 52.05 | 53.05 | * | RL |
| HIGH POINT | K4AZA | 52.525 | 52.525 | N | R |
| NEWPORT | K4GRW | 52.01 | 53.01 | * | PR |
| RALEIGH | WA4PEN | 52.03 | 53.03 | * | |
| RALEIGH/BUTNER | WB4RZF | 52.25 | 53.25 | N | C |

### 2 METERS

| | | | | | |
|---|---|---|---|---|---|
| AHOSKIE | WB4YNF | 144.53 | 145.13 | N | A |
| AHOSKIE | WA4ZGQ | 146.31 | 146.91 | * | P |
| ALBEMARLE | K4OGB | 146.385 | 146.985 | * | A |
| AQUADALE | WA4CHZ | 147.99 | 147.39 | * | |
| ASHEBORO | KJ4AV | 147.855 | 147.255 | * | PL |
| ASHEVILLE | WA4QCO | 146.235 | 146.835 | N | |
| ASHVL/MT PISGAH | WA4BVW | 146.16 | 146.76 | * | |
| ASHVL/SPIVEY MT | W4MOE | 146.31 | 146.91 | * | A |
| BENSON | AK4H | 147.87 | 147.27 | * | P |
| BOONE/RICH MTN | WA4KDB | 147.96 | 147.36 | * | |
| BREVARD/RICH MTN | WB4CJS | 147.735 | 147.135 | * | A |
| BURGAW | W4DLH | 146.34 | 146.94 | * | |
| BURLINGTON | WA4YGD | 146.07 | 146.67 | * | A |
| BURLINGTON | WA4HBQ | 147.675 | 147.075 | N | E |
| BURNSVILLE | N4YN | 147.975 | 147.375 | N | A |
| CARTHAGE | W4NIW | 147.84 | 147.24 | * | PK |
| CHARLOTTE | W4BFB | 144.63 | 145.23 | N | |
| CHARLOTTE | W4BFB | 144.69 | 145.29 | N | A |
| CHARLOTTE | WA4AOS | 144.75 | 145.35 | N | L |
| CHARLOTTE | W4BFB | 146.34 | 146.94 | N | A |
| CHARLOTTE | W4CQ | 146.46 | 147.06 | * | A |
| CHARLOTTE | WD4PLY | 147.99 | 147.39 | N | P |
| CHERRY MT | WA4BKU | 146.07 | 146.67 | N | |
| CHERRYVILLE | K4JTX | 144.55 | 145.15 | N | |
| CLINTON | WA4LZD | 146.19 | 146.79 | N | |
| CONCORD/KANNAP. | K4CEB | 146.055 | 146.655 | * | P |
| CROWDERS MT | WD4PLY | 144.85 | 145.45 | * | |
| DUNN | N4CID | 146.10 | 146.70 | * | P |
| DURHAM | WA4WTX | 144.85 | 145.45 | * | AL |
| DURHAM | WA4BFT | 146.34 | 146.94 | N | A |
| DURHAM | WD4LDB | 147.96 | 147.36 | * | A |
| EDEN | WA4ACP | 147.84 | 147.24 | N | T |
| EDEN/STONEVILLE | WA4QBG | 147.99 | 147.39 | * | |
| ELIZABETH CITY | WA4VTX | 146.055 | 146.655 | N | A |
| FAYETTEVILLE | N4EWG | 146.205 | 146.805 | * | |
| FAYETTEVILLE | WA4FLR | 146.445 | 147.045 | N | Y |
| FAYVLLE/CFARS | WB4YZF | 146.31 | 146.91 | * | P |
| FAYVLLE/FT BRAGG | W4LPL | 147.93 | 147.33 | * | |
| FOREST CITY | K4PBG | 147.84 | 147.24 | * | A |
| FRANKLIN | W4ZCZ | 144.89 | 145.49 | * | |
| FRANKLIN | W4GHZ | 147.84 | 147.24 | * | |
| GAST/SPCR MT | W4REW | 147.72 | 147.12 | * | A |
| GASTONIA | K4NOQ | 146.205 | 146.805 | N | P |
| GIBSONVILLE | WB4IKY | 144.89 | 145.49 | * | |
| GIBSONVILLE | KB4WRP | 146.475 | 147.075 | * | |
| GIBSONVILLE | WB4IKY | 147.72 | 147.12 | * | AR |
| GOLDSBORO | K4CYP | 146.25 | 146.85 | * | A |
| GREENSBORO | N4GGD | 144.65 | 145.25 | N | EL |
| GREENSBORO | K4SNI | 146.01 | 146.61 | * | A |
| GREENSBORO | N4GGD | 146.16 | 146.76 | N | AER |
| GREENSBORO | W4GG | 147.63 | 147.03 | * | PL |
| GREENSBORO | W4BUZ | 147.81 | 147.21 | N | |
| GREENVILLE | N4GVK | 144.75 | 145.35 | * | AEL |
| GREENVILLE | K4ROK | 147.975 | 147.375 | * | A |
| GREENVL/ESTN NC. | W4GDF | 147.69 | 147.09 | * | |
| GRIFTON | W4NBR | 146.085 | 146.685 | * | |
| HALIFAX | AA4SJ | 146.07 | 146.67 | N | A |
| HENDERSONVILLE | WB4YAO | 146.04 | 146.64 | N | L |
| HENDSVL/BERWLW M | WA4KNI | 144.67 | 145.27 | * | A |
| HENDSVL/PENIC/MT | WA4KNI | 147.855 | 147.255 | * | A |
| HICKORY/BRT. MT | WA4MDW | 146.25 | 146.85 | N | |
| HIGH POINT | N4XO | 144.81 | 145.41 | * | A |
| HIGH POINT | K4AZA | 146.40 | 147.00 | N | LA |
| HIGH POINT | KB4BPV | 147.435 | 146.835 | N | PL |
| HIGH POINT | WA4RIS | 147.765 | 147.165 | * | P |
| HILLSBOROUGH | WA4WTX | 147.825 | 147.225 | * | AL |
| JACKSONVILLE | WD4FVO | 146.40 | 147.00 | * | AE |
| JEFFERSON | W4YJG | 147.90 | 147.30 | * | A |
| KINSTON | W4OIX | 144.87 | 145.47 | * | A |
| LAURINBURG | K4QWK | 146.025 | 146.625 | * | PE |
| LENOIR | N4NIN | 147.795 | 147.195 | * | |
| LENOIR/HIBRITN | KN4K | 147.93 | 147.33 | * | |
| LEXINGTON | WD4ICX | 144.71 | 145.31 | N | AE |
| LEXINGTON | K4IZM | 146.31 | 146.91 | * | AE |
| LK NORMN/CLT | WB4KPF | 147.615 | 147.015 | * | P |
| LONG BEACH | K4JYH | 146.175 | 146.775 | * | |
| LUMBERTON | WV4Z | 147.96 | 147.36 | * | P |
| MACO | WA4LED | 147.66 | 147.06 | * | P |
| MADISON | KA4YFF | 146.295 | 146.895 | N | |
| MAGGIE VALLEY | W4HCY | 147.405 | 146.805 | * | O |
| MANTEO/WANCHESE | W4ACY | 146.34 | 146.94 | * | A |
| MARION | WD4PVE | 146.385 | 146.985 | N | A |
| MILLERS CREEK | N4GGN | 146.115 | 146.715 | * | A |
| MONROE | K4JCK | 147.705 | 147.105 | N | A |
| MONROE/UCARS | KF4NJ | 144.79 | 145.39 | * | P |
| MORGANTON | K4VLY | 147.75 | 147.15 | * | |
| MOUNTAIN HOME | K4GHH | 147.705 | 147.105 | * | |
| MT AIRY | WA4ZAS | 146.37 | 146.97 | N | |
| MT AIRY-RTTY | WA4ZAS | 146.34 | 146.94 | N | Y |
| MT MITCHELL | WA4BVW | 144.59 | 145.19 | * | |
| MT. AIRY | KD4J | 144.73 | 145.33 | * | A |
| MURPHY | KC4WB | 147.795 | 147.195 | N | |
| N. WILKESBORO | N4AGN | 144.77 | 145.37 | * | P |
| NAGS HEAD/BODIE | K4UOR | 146.235 | 146.835 | * | PE |
| NEW BERN | WD4JMS | 146.01 | 146.61 | * | AL |
| NEWPORT | K4GRW | 144.85 | 145.45 | * | ALO |
| NEWTON | AG4L | 147.675 | 147.075 | * | AER |
| NEWTON/ANDSN MT | W4ZQB | 144.57 | 145.17 | N | |
| OXFORD | KA4RVS | 144.57 | 145.17 | * | P |
| OXFORD | WA4MII | 144.77 | 145.37 | * | |
| RALEIGH | N4BEA | 144.67 | 145.27 | * | PL |
| RALEIGH | K4BWC | 144.89 | 145.49 | * | Y |
| RALEIGH | W4DW | 146.04 | 146.64 | * | P |
| RALEIGH | K4BWC | 146.13 | 146.73 | * | P |
| RALEIGH | WB4TQD | 146.28 | 146.88 | * | L |
| RALEIGH | WB4TQD | 147.75 | 147.15 | * | P |
| RANDLEMAN/GBO | WD4CVM | 144.55 | 145.15 | * | L |
| RED SPRINGS | W4MZP | 147.90 | 147.30 | * | P |
| REIDSVILLE | K4YFT | 146.25 | 146.85 | * | |
| ROANOKE RAPIDS | WA4DTS | 147.63 | 147.03 | * | P |
| ROARING GAP | WB4PZA | 146.22 | 146.82 | * | |
| ROB/JOANNA BLD | WD4CNS | 146.445 | 147.045 | N | |
| ROCKINGHAM | WA4ULA | 146.355 | 146.955 | N | |
| ROCKY MOUNT | K4EWL | 147.72 | 147.12 | * | E |
| SALISBURY | W4EXU | 146.13 | 146.73 | * | ELR |
| SANFORD | WB4EJJ | 147.78 | 147.18 | * | A |

### SERA REPEATER SYMBOLS

(Note new codes effective July 1, 1990)

| | | | |
|---|---|---|---|
| * | Full Member Supporter | T | Tone Access Repeater |
| D | Delinquent Membership | L | Linked Repeater |
| N | Non-Member SERA | K | Packet Operation |
| NB | Non On SERA Freq. Plan | Y | Radioteletype Operation |
| M | T-MARC Terr. Repeater | V | Television (SSTV or ATV) |
| A | Autopatch (Open) | PR | Proposed Rpt. Coord. |
| P | Private Autopatch | C | Under Construction |
| E | Emergency Autopatch | O | Off the Air Temporarily |
| R | Remote Base System | | |

**NOTE:** Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but it does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K".

## MORE NORTH CAROLINA REPEATERS

| | | | | | |
|---|---|---|---|---|---|
| SAURATOWN MT | W4RXG | 144.51 | 145.11 | * | Y |
| SAURATOWN MT | W4NC | 144.87 | 145.47 | * | |
| SAURATOWN MT | N4QDK | 146.19 | 146.79 | N | P |
| SELMA | KK4YP | 147.615 | 147.015 | N | C |
| SHALLOTTE | K4PPD | 144.77 | 145.37 | * | PE |
| SHALLOTTE | N4FAU | 147.99 | 147.39 | * | PE |
| SHELBY | W4NYR | 146.28 | 146.88 | * | |
| SHELBY | W4NYR | 147.945 | 147.345 | * | P |
| SMITHFIELD | KD4JQ | 146.37 | 146.97 | * | A |
| SMITHFIELD | W2AC | 147.99 | 147.39 | N | |
| SPARTA/GREEN MT. | K4ITL | 144.83 | 145.43 | N | L |
| SPRING LAKE | WB4KDC | 146.115 | 146.715 | N | |
| STATESVILLE | AI4O | 146.085 | 146.685 | * | P |
| STATSVL/ASBRY MT | WA4JRL | 147.645 | 147.045 | N | Y |
| SWANSBORO | KO4S | 146.16 | 146.76 | * | A |
| TABOR CITY | W4DCD | 146.175 | 146.775 | N | ALR |
| TRENTON | WB4TQD | 144.61 | 145.21 | * | L |
| TRYON/MELROSE MT | WB4SFK | 147.78 | 147.18 | * | C |
| TUCKASEGEE | W8OMV | 147.90 | 147.30 | N | |
| WADESBORO | W4USH | 146.235 | 146.835 | * | |
| WALKERTOWN | WA4RBW | 147.915 | 147.315 | * | |
| WASHINGTON | WA4TEP | 147.945 | 147.345 | * | |
| WAXHAW | WA4ZRS | 147.465 | 146.865 | * | P |
| WAYNESVILLE | N4SM | 147.87 | 147.27 | * | A |
| WHITEVILLE | K4MSD | 147.81 | 147.21 | * | AL |
| WILLIAMSTON | KA4KNU | 144.81 | 145.41 | * | A |
| WILMINGTON | W4VNK | 146.13 | 146.73 | * | P |
| WILMINGTON | K4GMP | 146.22 | 146.82 | * | L |
| WILMINGTON | N4CTJ | 147.78 | 147.18 | N | AL |
| WILSON | WB4THL | 146.16 | 146.76 | N | A |
| WINSTON-SALEM | W4NC | 146.04 | 146.64 | * | AL |

### 220 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ASHEVILLE | NC4N | 223.00 | 224.60 | * | A |
| ASHVL/MT PISGAH | WA4BVW | 222.34 | 223.94 | * | |
| BURNSVILLE | N4TFU | 223.14 | 224.74 | N | |
| CANTON | N4DWU | 223.22 | 224.82 | * | P |
| CHARLOTTE | W4BFB | 222.80 | 224.40 | N | A |
| CHERRYVILLE | WB4UDS | 223.36 | 224.96 | N | |
| EDEN | WA4WGY | 223.18 | 224.78 | * | |
| FAYETTEVILLE | W4EHF | 222.42 | 224.02 | * | L |
| GOLDSBORO | WB3JVX | 223.36 | 224.96 | * | ET |
| GREENSBORO | KC4HTS | 223.22 | 224.82 | N | PL |
| GREENSBORO | WB4WOR | 222.54 | 224.14 | * | K |
| GRIFTON | WA4DAN | 223.24 | 224.84 | * | L |
| HENDSVL/BERWLW M | WA4KNI | 222.64 | 224.24 | * | |
| HICKORY | WA4MDW | 222.42 | 224.02 | N | |
| HIGH POINT | K4AZA | 222.32 | 223.92 | N | LA |
| HIGH POINT | N4NNR | 223.00 | 224.60 | * | PL |
| HILLSBOROUGH | WA4WTX | 222.34 | 223.94 | * | L |
| LENOIR/HIBRITN | KN4K | 222.56 | 224.16 | * | |
| LINWOOD | KA4HUV | 222.38 | 223.98 | N | |
| LK NORMN/CLT | WB4KPF | 223.08 | 224.68 | * | |
| LOCUST | WA4ZIA | 222.88 | 224.48 | * | PL |
| MARS HILL | WB4PLA | 223.06 | 224.66 | N | |
| MARSHALL | KA4TYO | 222.76 | 224.36 | N | L |
| MAYODAN MT | WA4ACP | 222.62 | 224.22 | N | T |
| MORGANTON | WB4PML | 223.20 | 224.80 | * | T |
| MT MITCHELL | WA4BVW | 222.94 | 224.54 | * | |
| MT. TOXAWAY | K4MSK | 223.12 | 224.72 | N | |
| RALEIGH | WA4PEN | 223.04 | 224.64 | * | PL |
| ROCKY MOUNT | NF4C | 222.62 | 224.22 | * | AR |
| SALISBURY | W4EXU | 223.16 | 224.76 | * | L |
| SAURATOWN MT | WA4YHH | 222.98 | 224.58 | * | |
| SAURATOWN MT | W4RXG | 223.10 | 224.70 | * | Y |
| SAURATOWN MT | W4RXG | 223.28 | 224.88 | * | |
| SAURATOWN MT | WA4WTB | 223.36 | 224.96 | * | |
| STATESVILLE | WA4PVI | 222.70 | 224.30 | N | |
| WILMINGTON | K4YNY | 222.90 | 224.50 | * | LR |
| WINSTON-SALEM | WA4YHH | 223.04 | 224.64 | * | P |

### 440 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ASHVL/MT PISGAH | WA4COS | 449.90 | 444.90 | N | |
| CHARLOTTE | W4BFB | 449.60 | 444.60 | N | |
| CHARLOTTE | W4CQ | 449.85 | 444.85 | * | A |
| DURHAM | WA4WTX | 449.10 | 444.10 | * | AL |
| FAYETTEVILLE | WB4YZF | 449.40 | 444.40 | * | |
| FAYETTEVILLE | KB4ZW | 449.90 | 444.90 | N | PR |
| GASTONIA | WB4VTE | 449.55 | 444.55 | N | |
| GIBSONVILLE | WB4IKY | 449.35 | 444.35 | * | C |
| GOLDSBORO | WB3JVX | 448.05 | 443.05 | * | EL |
| GREENSBORO | WD4PQZ | 448.50 | 443.50 | * | ALR |
| GREENSBORO | WB4WOR | 449.30 | 444.30 | * | C |
| GREENVILLE | AI4J | 449.80 | 444.80 | N | |
| HAW RIVER | K2MZ | 448.875 | 443.875 | * | T |
| HENDSVL/BERWLW M | WA4KNI | 449.25 | 444.25 | * | |
| HICKORY | K4JEQ | 449.00 | 444.00 | * | O |
| HIGH POINT | K4AZA | 447.90 | 442.90 | N | L |
| HIGH POINT | N4LXW | 448.70 | 443.70 | N | |
| LEXINGTON | WD4ICX | 449.50 | 444.50 | N | |
| LOCUST | WA4LBT | 448.70 | 443.70 | * | PL |
| MAYODAN | WA4ACP | 447.10 | 442.10 | N | |
| MT AIRY/FSH PK | KF4UY | 449.80 | 444.80 | * | LR |
| MT MITCHELL | N4DWU | 448.60 | 443.60 | * | |
| NEW BERN | WA4VBC | 449.90 | 444.90 | * | O |
| PITTSBORO | WB4MMY | 447.55 | 442.55 | * | |
| RALEIGH | N4BEA | 447.15 | 442.15 | * | L |
| RALEIGH | WA4PEN | 449.50 | 444.50 | * | PL |
| RALEIGH | WA1WXL | 449.95 | 444.95 | * | |
| ROARING GAP | KC4XE | 448.55 | 443.55 | * | L |
| ROCKY MOUNT | N4JEH | 449.70 | 444.70 | * | P |
| SALISBURY | N4MME | 449.65 | 444.65 | * | AR |
| SAURATOWN MT | WA4HUV | 439.25 | 421.25 | N | V |
| SAURATOWN MT | N4GGC | 448.10 | 443.10 | N | L |
| SAURATOWN MT | WA4WTB | 448.40 | 443.40 | * | C |
| SELMA | KK4YP | 449.00 | 444.00 | N | C |
| SHELBY | W4NYR | 439.25 | 427.25 | * | V |
| SMITHFIELD | WK2F | 449.25 | 444.25 | N | |
| WILMINGTON | K4YNY | 447.500 | 442.500 | * | ALR |
| WILMINGTON | K4GMP | 449.85 | 444.85 | * | |
| WILSON | NE4J | 449.90 | 444.90 | N | |

## SOUTH CAROLINA REPEATERS

### 10 METERS

| | | | | | |
|---|---|---|---|---|---|
| RKY RDG/WALLACE | KA4ABW | 29.60 | RMT.BS | N | R |

### 6 METERS

| | | | | | |
|---|---|---|---|---|---|
| PICKENS | WB4YXY | 52.41 | 53.41 | N | |

### 2 METERS

| | | | | | |
|---|---|---|---|---|---|
| AIKEN | W4TUN | 144.57 | 145.17 | * | |
| AIKEN | N4ADM | 147.885 | 147.285 | N | P |
| ANDERSON | N4SZ | 146.37 | 146.97 | * | P |
| ANDERSON/SAS MT | W4FVV | 146.19 | 146.79 | * | |
| BAMBERG | WA4DFP | 144.73 | 145.33 | N | |
| BARNWELL | WA4FOF | 147.63 | 147.03 | * | |
| BIG KNOB/GREY CT | KB4YF | 146.265 | 146.865 | N | |
| CHARLESTON | WB4URP | 144.65 | 145.25 | N | |
| CHARLESTON | K4ILT | 146.16 | 146.76 | N | P |
| CHARLESTON | K4ILT | 146.19 | 146.79 | N | |
| CHARLESTON | WB4LET | 147.87 | 147.27 | * | PL |
| CHELSEA | KB4GY | 144.71 | 145.31 | * | |
| CHERAW | KA4ABW | 147.735 | 147.135 | N | AE |
| CHESTER | KB4FJX | 146.025 | 146.625 | N | T |
| COLUMBIA | KC4LB | 144.83 | 145.43 | N | P |
| COLUMBIA | WB4NEP | 146.115 | 146.715 | N | P |
| COLUMBIA | K4AVU | 146.28 | 146.88 | N | |
| COLUMBIA | N4NUY | 147.93 | 147.33 | N | |
| COLUMBIA | N4EOY | 147.96 | 147.36 | * | L |
| CONWAY | WD4JMT | 144.51 | 145.11 | * | |
| DILLON/PEE DEE | NN4N | 146.145 | 146.745 | * | |
| DORCHESTER | W4NAT | 147.78 | 147.18 | * | |
| FLORENCE | W4ULH | 146.25 | 146.85 | N | A |
| FLORENCE | WA4ISM | 146.37 | 146.97 | * | P |
| FT MILL/CAROWND | AA4SC | 147.78 | 147.18 | * | |
| GASTON | WB4NEP | 144.61 | 145.21 | N | P |
| GEORGETOWN | WD4DMI | 147.975 | 147.375 | N | |
| GREENVILLE | W4IQQ | 146.34 | 146.94 | * | |
| GREENVILLE | K4LEO | 147.975 | 147.375 | * | T |
| GREENWOOD | K4VIA | 147.765 | 147.165 | * | P |
| GREENWOOD/HODGES | KB4CS | 144.53 | 145.13 | N | |
| GRNVLE/CSRS HD | W4NYK | 146.01 | 146.61 | * | |
| GRNVLE/PARIS MT | W4NYK | 146.22 | 146.82 | * | P |
| HILTON HEAD | N1BAL | 147.84 | 147.24 | * | |
| INMAN | WD8OXE | 144.55 | 145.15 | * | P |
| LANCASTER | W4PAX | 146.10 | 146.70 | * | |
| LANCASTER | KC4AC | 147.84 | 147.24 | * | |
| LEXINGTON | KA4FEC | 147.99 | 147.39 | * | |
| LITTLE MT | K4AVU | 147.81 | 147.21 | N | |
| MARION | W4YLT | 146.40 | 147.00 | N | E |
| MONCKS CORNER | KA4BJM | 147.75 | 147.15 | N | |
| MT PLEASANT | K4ESG | 146.385 | 146.985 | N | P |
| MT. PLEASANT | K4LWS | 147.90 | 147.30 | N | PT |
| MYRTLE BEACH | WA4DDK | 144.87 | 145.47 | N | T |
| MYRTLE BEACH | WD4JMT | 147.72 | 147.12 | * | E |
| MYT BEA/BRKSVLLE | W4DCD | 147.885 | 147.285 | N | AL |
| N. AUGUSTA | K4FKJ | 146.13 | 146.73 | * | |
| N. MYRTLE BEACH | K4HOG | 147.63 | 147.03 | N | P |
| N. SPARTANBURG | N4UZT | 147.915 | 147.315 | * | A |
| NEWBERRY | KB4CO | 146.085 | 146.685 | N | |
| ORANGEBURG | K4RDN | 147.69 | 147.09 | N | C |
| PICKENS | WB4YXZ | 146.40 | 147.00 | N | |
| RKY RDG/WALLACE | KA4ABW | 144.89 | 145.49 | N | A |
| ROCK HILL | AA4PF | 144.71 | 145.31 | * | PL |
| ROCK HILL | K4YTZ | 146.43 | 147.03 | N | P |
| ROCKY SPUR | WD4MGM | 147.885 | 147.285 | * | |
| SANTEE | W4DTW | 147.825 | 147.225 | N | A |
| SENECA/LONG MT | WA4JRJ | 147.87 | 147.27 | N | P |
| SIMPSONVILLE | WD4BJY | 146.13 | 146.73 | * | |
| SIMPSONVILLE | WA4SDT | 147.75 | 147.15 | N | Y |
| SPARTANBURG | K4JLA | 147.69 | 147.09 | * | |
| ST. MATTHEWS | AD4U | 146.07 | 146.67 | * | A |
| SUMMERTON | N4LWY | 144.55 | 145.15 | N | P |
| SUMTER | KB4FIQ | 146.04 | 146.64 | * | |
| SUMTER | WA4UMU | 147.615 | 147.015 | * | P |
| SUMTER/SHAW | W4VFR | 147.66 | 147.06 | * | A |
| WHITE HALL | W4BWZ | 146.31 | 146.91 | N | |

### 220 MHZ

| | | | | | |
|---|---|---|---|---|---|
| AIKEN | W4TUN | 223.36 | 224.96 | * | |
| COLUMBIA | N4EOY | 223.30 | 224.90 | * | LR |
| CROSS | KB4VFD | 222.98 | 224.58 | * | CA |
| GREER | W4ILY | 222.38 | 223.98 | N | P |
| LITTLE MT | KA4FEC | 222.52 | 224.12 | * | |
| PARIS MT/GRNVL | W4NYK | 223.32 | 224.92 | N | C |
| PICKENS | WB4QHF | 222.80 | 224.40 | * | P |
| PICKENS/CSRS HD | WB4QHF | 222.54 | 224.14 | * | LR |
| PICKENS/SASFR MT | AJ4N | 222.46 | 224.06 | * | |
| RIDGEVILLE | N4CII | 222.48 | 224.08 | * | |

### 440 MHZ

| | | | | | |
|---|---|---|---|---|---|
| AIKEN | W4TUN | 448.40 | 443.40 | * | |
| ANDERSON/SAS MT | WD4BUH | 449.925 | 444.925 | N | |
| CAESARS HEAD | WB4LZQ | 448.875 | 443.875 | N | |
| CHARLESTON | N4MNH | 449.30 | 444.30 | * | A |
| COLUMBIA | N4EOY | 448.00 | 443.00 | * | LR |
| COLUMBIA | KC4GYM | 448.50 | 443.50 | * | |
| COLUMBIA | K4NHN | 449.20 | 444.20 | N | |
| CROSS | KB4VFD | 447.30 | 442.30 | * | CA |
| GREENVILLE | KJ4IS | 447.25 | 442.25 | N | C |
| GRNVLE/PARIS MT | ND4N | 448.10 | 443.10 | * | P |
| LEXINGTON | N4GUP | 439.25 | 421.25 | * | V |
| MT PLEASANT | N4DRU | 449.70 | 444.70 | N | |
| PICKENS/CSRS HD | WB4QHF | 447.40 | 442.40 | * | |
| SUMMERVILLE | WA4HNK | 448.80 | 443.80 | * | P |
| SUMTER | WA4UMU | 439.25 | 423.25 | N | V |

## TENNESSEE REPEATERS

### 10 METERS

| | | | | | |
|---|---|---|---|---|---|
| JACKSON | NQ4W | 29.54 | 29.64 | * | C |
| KNXVL/ENG MT | WB4IOB | 29.52 | 29.62 | N | |
| MEM/FISHERVILLE | N4DRL | 29.58 | 29.68 | * | AL |
| MEMPHIS/FRAYSER | W4ZJM | 29.52 | 29.62 | N | |
| NASHVILLE | WA4BZU | 29.54 | 29.64 | * | TLO |
| UNION CITY | WA4YGM | 29.56 | 29.66 | N | |

### 6 METERS

| | | | | | |
|---|---|---|---|---|---|
| CHATTANOOGA | WB4LRD | 52.01 | 53.01 | N | |
| COOKEVILLE | WA4UCE | 52.19 | 53.19 | N | |
| GALLATIN | WD4KWP | 52.45 | 53.45 | * | L |
| GREENEVILLE | WB4NKM | 52.01 | 53.01 | N | |
| GUTHRIE (TN/KY) | KA4ZKL | 52.23 | 53.23 | N | |
| KNOXVILLE | WA4YON | 52.25 | 53.25 | N | |
| KNOXVILLE | WB4GBI | 52.35 | 53.35 | * | O |
| KNXVL/ENG MT | WB4IOB | 52.15 | 53.15 | N | A |
| MEM/FISHERVILLE | N4DRL | 52.27 | 53.27 | * | AL |
| MEMPHIS | WA4KOG | 52.01 | 53.01 | * | |
| MEMPHIS | K4RDK | 52.55 | 53.55 | N | |
| NASHVILLE | N4ARK | 52.525 | 52.525 | * | R |

### 2 METERS

| | | | | | |
|---|---|---|---|---|---|
| ALAMO | WB4EDS | 147.735 | 147.135 | N | |
| ATHENS | WB4GRC | 144.71 | 145.31 | * | |
| BENTON | K4SIR | 144.85 | 145.45 | N | T |
| BLOUNTVILLE | WA4KMG | 147.60 | 147.00 | N | |
| BRISTOL | WB4DKI | 146.07 | 146.67 | * | A |
| BRISTOL | WD4CYZ | 146.28 | 146.88 | N | |
| BRISTOL/HLSTN MT. | K4LSP | 146.16 | 146.76 | N | A |
| BROWNSVILLE | KB4YTU | 144.83 | 145.43 | N | PL |
| BROWNSVILLE | WA4ABU | 146.055 | 146.655 | N | |
| CARTHAGE | N4OTT | 144.59 | 145.19 | * | P |
| CHATT/SIGNAL MT | AD4F | 146.055 | 146.655 | * | |
| CHATT/SIGNAL MT | WA4ZOK | 147.60 | 147.00 | N | P |
| CHATTANOOGA | K4CMY | 144.53 | 145.13 | * | |
| CHATTANOOGA | K4VCM | 144.69 | 145.29 | * | |
| CHATTANOOGA | W4AM | 144.79 | 145.39 | * | A |
| CHATTANOOGA | K4CMY | 146.01 | 146.61 | * | |
| CHATTANOOGA | W4AM | 146.19 | 146.79 | * | A |
| CLARKSVILLE | WD4SGA | 147.60 | 147.00 | N | |
| CLARKSVILLE | AA4TA | 147.99 | 147.39 | * | |
| CLEVELAND | W4GZX | 146.31 | 146.91 | N | C |
| COALFIELD | AA4UP | 146.145 | 146.745 | * | |
| COLLIERVILLE | KB4YGI | 147.63 | 147.03 | N | |
| COLUMBIA | KE4KO | 144.85 | 145.45 | N | |
| COLUMBIA | WA4ZYX | 147.72 | 147.12 | * | A |
| COOKEVILLE | NQ4Y | 144.51 | 145.11 | N | |
| COOKEVILLE | WA4UCE | 144.83 | 145.43 | N | A |
| COOKEVILLE | K4HKZ | 147.645 | 147.045 | N | C |
| COOKEVILLE | N4WS | 147.81 | 147.21 | * | P |
| COVINGTON | WA4VXW | 147.93 | 147.33 | * | PLK |
| CRAB ORCHARD | KA4QYI | 146.04 | 146.64 | N | C |
| CUMBERLAND CITY | WD4DBJ | 144.73 | 145.33 | * | |
| DAYTON/RHEA CTY. | K4ZLA | 147.99 | 147.39 | N | |
| DECATUR-PONE KB | W4RJC | 144.55 | 145.15 | * | |
| DOVER | N4VIH | 144.81 | 145.41 | N | |
| DYERSBURG | WB4RCK | 146.145 | 146.745 | N | |
| EASTVIEW | WA4GZX | 144.79 | 145.39 | N | |
| ERWIN | WB4BRV | 144.65 | 145.25 | N | AL |
| FAYETTEVILLE | KO4G | 146.265 | 146.865 | N | |
| FAYETTEVILLE | W4NIQ | 147.63 | 147.03 | N | PA |
| FRANKLIN | KK4IY | 146.385 | 146.985 | N | |
| GALLATIN | WD4BKY | 147.84 | 147.24 | * | L |
| GALLATIN | WD4BKY | 147.87 | 147.27 | N | |
| GERMANTOWN | KA4ATI | 147.69 | 147.09 | N | |
| GRAY | WD4SBX | 144.51 | 145.11 | * | A |
| GRAY/HOLSTON MT | WD4SBX | 147.81 | 147.21 | * | |
| GREENBRIER | WQ4E | 146.22 | 146.82 | N | PR |
| GREENEVILLE | K4EPC | 144.79 | 145.39 | * | |
| GREENEVILLE | WB4TUO | 144.81 | 145.41 | N | |
| GTLBG/COVE MTN | WA4KJH | 146.25 | 146.85 | N | LE |
| GUTHRIE (TN/KY) | KA4NNE | 146.205 | 146.805 | N | |
| HENDERSON | K4TC | 147.705 | 147.105 | N | PE |
| HENDERSONVILLE | WB4WZK | 144.67 | 145.27 | * | PT |
| HENDERSONVILLE | N4WF | 147.945 | 147.345 | N | |
| HUMBOLDT | NQ4Y | 144.75 | 145.35 | N | AL |
| JACKSON | WB7BOX | 144.51 | 145.11 | * | AL |
| JACKSON | KF4SC | 144.71 | 145.31 | * | A |

## MORE TENNESSEE REPEATERS

| | | | | | |
|---|---|---|---|---|---|
| JACKSON | W4WKZ | 147.81 | 147.21 | * | A |
| JAMESTOWN | K4NLP | 147.69 | 147.09 | N | A |
| JASPER | KD4XX | 144.59 | 145.19 | * | A |
| JOHNSON CITY | WB4SQC | 144.69 | 145.29 | * | P |
| JOHNSON CITY | W4ABR | 146.19 | 146.79 | N | A |
| KNGSPT/BAYS MT | W4TRC | 146.37 | 146.97 | * | P |
| KNOXVILLE | N4IJL | 144.51 | 145.11 | N | |
| KNOXVILLE | W4BBB | 144.61 | 145.21 | * | A |
| KNOXVILLE | WA4TEM | 144.73 | 145.33 | * | AR |
| KNOXVILLE | N4GRC | 144.77 | 145.37 | * | |
| KNOXVILLE | N4IUA | 144.83 | 145.43 | N | |
| KNOXVILLE | WB4GBI | 144.87 | 145.47 | * | |
| KNOXVILLE | WB4GBI | 146.025 | 146.625 | * | |
| KNOXVILLE | KB4KIE | 146.10 | 146.70 | N | |
| KNOXVILLE | WB4GBI | 146.34 | 146.94 | * | |
| KNOXVILLE | KA4AZQ | 146.40 | 147.00 | * | |
| KNOXVILLE | WB4GBI | 147.675 | 147.075 | * | A |
| KNOXVILLE | W4BBB | 147.90 | 147.30 | * | |
| KNXVL/ENG MT | WB4IOB | 146.13 | 146.73 | N | |
| LAFAYETTE | KC4ECD | 144.71 | 145.31 | * | ET |
| LAFOLLETTE | KA4OAK | 144.53 | 145.13 | N | A |
| LAFOLLETTE | KA4OAK | 147.96 | 147.36 | N | |
| LAFOLLETTE/WMT | K4BGW | 146.07 | 146.67 | N | |
| LAKE CITY | WB4OAH | 146.22 | 146.82 | N | |
| LAVERNE | KJ4RA | 144.63 | 145.23 | N | |
| LEBANON | WB4DOR | 144.79 | 145.39 | * | |
| LEBANON | WD4JVV | 147.615 | 147.015 | N | |
| LENOIR CITY | KB4PIO | 146.085 | 146.685 | N | P |
| LEXINGTON | WD4MVR | 146.43 | 147.03 | N | |
| LOUDON | KE4SK | 144.57 | 145.17 | * | |
| MANCHESTER | W4UOT | 146.10 | 146.70 | * | P |
| MARTIN | WA4ZQX | 146.025 | 146.625 | * | A |
| MCMINNVILLE | WD4MWQ | 146.37 | 146.97 | * | P |
| MCMINVL/SHT MT | W4KKO | 144.89 | 145.49 | * | |
| MCNAIRY | NU5O | 147.915 | 147.315 | * | PR |
| MEDINA | K4BEZ | 146.37 | 146.97 | N | A |
| MEM/FISHERVILLE | N4DRL | 144.73 | 145.33 | * | AL |
| MEMPHIS | K0JXI | 144.55 | 145.15 | N | |
| MEMPHIS | KA0BRN | 144.57 | 145.17 | N | ALT |
| MEMPHIS | WA4VIP | 144.81 | 145.41 | N | |
| MEMPHIS | WA4KOG | 144.85 | 145.45 | * | PR |
| MEMPHIS | WA4KOG | 144.89 | 145.49 | * | |
| MEMPHIS | WB4NNE | 146.04 | 146.64 | * | O |
| MEMPHIS | W4UFT | 146.10 | 146.70 | N | |
| MEMPHIS | WB4DAZ | 146.13 | 146.73 | * | P |
| MEMPHIS | WA4HBY | 146.19 | 147.51 | N | NB |
| MEMPHIS | W4BS | 146.22 | 146.82 | N | P |
| MEMPHIS | WA4KOG | 146.25 | 146.85 | * | A |
| MEMPHIS | WA4ETE | 146.28 | 146.88 | * | AL |
| MEMPHIS | K4BN | 146.34 | 146.94 | N | A |
| MEMPHIS | W4ZJM | 146.40 | 147.00 | N | |
| MEMPHIS | WA4MQQ | 147.66 | 147.06 | N | |
| MEMPHIS | KA4GMV | 147.72 | 147.12 | N | AT |
| MEMPHIS | WA4KOG | 147.78 | 147.18 | * | |
| MEMPHIS | WA4OWI | 147.87 | 147.27 | N | |
| MEMPHIS | WA4ADT | 147.90 | 147.30 | * | PL |
| MEMPHIS | WB4MMI | 147.96 | 147.36 | N | TA |
| MORRISTOWN | WD4PRQ | 147.63 | 147.03 | N | E |
| MORRISTOWN | WB4OAH | 147.825 | 147.225 | N | |
| MOUNTAIN CITY | WD4OMO | 144.87 | 145.47 | N | |
| MURFREESBORO | WB4LHO | 144.57 | 145.17 | N | P |
| NASHVILLE | N4ARK | 144.61 | 145.21 | * | RL |
| NASHVILLE | K4UVH | 144.69 | 145.29 | N | |
| NASHVILLE | KI4OG | 144.77 | 145.37 | * | P |
| NASHVILLE | N4ARK | 144.87 | 145.47 | * | P |
| NASHVILLE | WA4PCD | 146.01 | 146.61 | N | PO |
| NASHVILLE | WB4NTM | 146.04 | 146.64 | * | AT |
| NASHVILLE | W4PQP | 146.16 | 146.76 | N | |
| NASHVILLE | W4SQE | 146.19 | 146.79 | * | |
| NASHVILLE | WA4PCD | 146.25 | 146.85 | N | P |
| NASHVILLE | WA4TOA | 146.28 | 146.88 | N | |
| NASHVILLE | WA4PCD | 146.34 | 146.94 | N | |
| NASHVILLE | K4AYN | 147.645 | 147.045 | N | |
| NASHVILLE | WA4PCD | 147.75 | 147.15 | N | |
| NASHVILLE | WA4PCD | 147.78 | 147.18 | N | |
| NASHVILLE | WA4BZU | 147.885 | 147.255 | * | TP |
| NASHVILLE | WB4ZSA | 147.90 | 147.30 | * | P |
| NASHVILLE S. | WB4NTM | 147.96 | 147.36 | * | ATL |
| NASHVILLE S.W. | WB4NTM | 146.07 | 146.67 | * | ATL |
| NASHVLE/FAIRVIEW | N4ARK | 144.51 | 145.11 | * | |
| OAK RIDGE | W4SKH | 146.28 | 146.88 | N | |
| OAK RIDGE | W4SKH | 146.37 | 146.97 | N | A |
| OAK RIDGE | K4EAJ | 147.72 | 147.12 | * | |
| OAK RIDGE | K4EAJ | 147.75 | 147.15 | * | LT |
| OAKFIELD | WA4BJY | 147.99 | 147.39 | * | PRT |
| PARIS | K4KLX | 147.96 | 147.36 | N | A |
| PETROS/FRZ HD MT | KJ4SI | 147.855 | 147.255 | * | AER |
| PIKEVILLE | K4PUX | 147.885 | 147.285 | N | |
| PINSON | WB0TMC | 147.87 | 147.27 | N | C |
| POCAHONTAS | WB4MMI | 147.96 | 147.36 | N | |
| POLK CTY/OSWALD | WD4DES | 147.78 | 147.18 | N | A |
| PULASKI/MUSIC MT. | W4JVO | 146.175 | 146.775 | * | E |
| PURYEAR | WA4CEX | 147.765 | 147.165 | * | |
| ROCKWOOD | AA4KS | 147.615 | 147.015 | * | AE |
| ROCKWOOD | KB4WYI | 147.93 | 147.33 | N | |
| SAVANNAH | WB4DQU | 146.31 | 146.91 | N | |
| SEV/SHIELDS MT | N4CJX | 144.67 | 145.27 | N | |
| SHELBYVILLE | W4QEB | 147.66 | 147.06 | * | A |
| SHORT MTN | W4YXA | 146.31 | 146.91 | * | |
| SPRING HILL | NW4E | 144.85 | 145.45 | N | A |
| SULPHUR SPRINGS. | WD4OBW | 147.99 | 147.39 | N | AL |
| TRENTON | WB5LIY | 144.61 | 145.21 | N | AE |
| UNION CITY | WA4YGM | 146.10 | 146.70 | N | A |
| UNION CITY | WA4YGM | 147.615 | 147.015 | N | AR |
| VIKING MT/GRNVLE. | KB4UG | 147.66 | 147.06 | * | R |
| WATERTOWN | KE4WA | 146.13 | 146.73 | N | T |
| WATERTOWN | N4IDG | 146.235 | 146.835 | N | P |
| WINCHESTER | N4NCM | 146.22 | 146.82 | * | P |

### 220 MHZ

| | | | | | |
|---|---|---|---|---|---|
| BLOUNTVILLE | WA4KMG | 222.60 | 224.20 | N | |
| BROWNSVILLE | KB4YTU | 222.60 | 224.20 | N | PL |
| CHATT/SIGNAL MT | WA4ZOK | 223.30 | 224.90 | N | |
| CHATTANOOGA | K4VCM | 223.18 | 224.78 | * | |
| CLARKSVILLE | KF4GP | 222.34 | 223.94 | N | |
| CLEVELAND | KK4US | 222.72 | 224.32 | N | P |
| COLLIERVILLE | KB4YGI | 222.80 | 224.40 | N | PL |
| DONELSON | N4PYI | 223.14 | 224.74 | * | P |
| FISHERVILLE | N4DRL | 223.28 | 224.88 | * | AL |
| FRANKLIN | WD4SGS | 222.54 | 224.14 | N | |
| GALLATIN | WB4ZSA | 222.38 | 223.98 | * | |
| GREENBRIER | WQ4E | 223.16 | 224.76 | N | PR |
| GREENEVILLE | WB4NKM | 220.058 | 220.058 | * | BEAC |
| GREENEVILLE | WB4NKM | 223.34 | 224.94 | * | A |
| HERMITAGE | WB4RAB | 222.30 | 223.90 | N | |
| JC/BUFFALO MT | WA4UCI | 223.18 | 224.78 | * | |
| KNOXVILLE | KB4FZK | 222.62 | 224.22 | * | |
| KNOXVILLE | WA4YON | 222.86 | 224.46 | N | |
| KNOXVILLE | W4BBB | 222.90 | 224.50 | * | |
| LAFOLLETTE | KA4OAK | 222.68 | 224.28 | N | |
| MEM/FISHERVILLE | N4DRL | 222.90 | 224.50 | * | AL |
| MEMPHIS | W4BS | 222.82 | 224.42 | N | L |
| MEMPHIS | WA4KOG | 223.18 | 224.78 | * | |
| MEMPHS/FRAYSER. | W4ZJM | 222.34 | 223.94 | N | L |
| NASHVILLE | WB4NTM | 222.48 | 224.08 | N | |
| NASHVILLE | KI4OG | 222.84 | 224.44 | * | PLR |
| NASHVILLE | KM4MC | 223.06 | 224.66 | N | AL |
| NASHVILLE | KI4OG | 223.24 | 224.84 | * | PLR |
| NASHVILLE | N4PYI | 223.34 | 224.94 | * | O |
| SHORT MTN. | KE4NP | 222.66 | 224.26 | * | |
| SPRINGFIELD | KB8EHB | 222.62 | 224.22 | * | |
| SULPHUR SPRINGS. | WD4OBW | 223.26 | 224.86 | N | AL |

### 440 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ALAMO | WB4EDS | 448.75 | 443.75 | N | L |
| BARTLETT | WA4DOR | 448.70 | 443.70 | N | T |
| BARTLETT | WA4PAJ | 449.25 | 444.25 | N | |
| BENTON/BEAN MT | K4SIR | 449.95 | 444.95 | N | T |
| BRISTOL/HLST MT | K4LSP | 449.50 | 444.50 | N | A |
| BROWNSVILLE | KB4YTU | 449.20 | 444.20 | N | PL |
| BROWNSVILLE | KB4YTU | 449.45 | 444.45 | N | CPL |
| CHATTANOOGA | WJ9J | 447.15 | 442.15 | N | AELR |
| CHATTANOOGA | N4JSR | 447.325 | 442.325 | N | |
| CHATTANOOGA | W4AM | 449.10 | 444.10 | * | A |
| CHATTANOOGA | WJ9J | 449.425 | 444.425 | N | AELR |
| CHATTANOOGA | WB4LRD | 449.875 | 444.875 | N | |
| CLARKSVILLE | KF4GP | 449.95 | 444.95 | N | |
| COOKEVILLE | NQ4Y | 449.55 | 444.55 | N | |
| CUMBERLAND CITY | WD4DBJ | 448.40 | 443.40 | * | PT |
| DOVER | N4VIH | 449.925 | 444.925 | N | |
| ETHRIDGE | AB4UP | 447.675 | 442.675 | * | PR |
| FAYETTEVILLE | KC4GPM | 448.10 | 443.10 | * | |
| FISHERVILLE | N4DRL | 449.30 | 444.30 | * | AL |
| FRANKLIN | N4ULM | 448.85 | 443.85 | N | |
| GALLATIN | N4SSB | 448.30 | 443.30 | N | |
| GALLATIN | WD4BKY | 449.35 | 444.35 | N | PLT |
| GALLATIN | WD4KWP | 449.45 | 444.45 | * | |
| GATLBG/COVE MT | WA4KJH | 448.30 | 443.30 | N | L |
| GRAY/HOLSTON MT | WD4SBX | 447.20 | 442.20 | * | A |
| GREENBRIER | WQ4E | 449.25 | 444.25 | N | |
| GREENEVILLE | WB4NKM | 449.65 | 444.65 | * | R |
| HENDERSON | K4TC | 449.75 | 444.75 | N | P |
| JACKSON | WB4EPG | 447.80 | 442.80 | N | A |
| JACKSON | WB7BOX | 449.875 | 444.875 | * | PERL |
| JAMESTOWN | N4PTK | 448.625 | 443.625 | * | |
| JASPER | KD4XV | 447.05 | 442.05 | * | |
| JOHNSON CITY | WB4SQC | 448.425 | 443.425 | * | |
| KNOXVILLE | WA4NTZ | 447.50 | 442.50 | N | |
| KNOXVILLE | WB4GBI | 449.30 | 444.30 | * | |
| KNOXVILLE | KB4KSL | 449.50 | 444.50 | N | |
| KNOXVILLE | KB4NK | 449.60 | 444.60 | * | |
| MEDINA | K4BEZ | 447.05 | 442.05 | N | AL |
| MEMPHIS | N4ERU | 421.25 | 439.25 | N | V |
| MEMPHIS | N4ERU | 439.25 | 421.25 | N | ATV |
| MEMPHIS | WB4EPG | 447.625 | 442.625 | N | |
| MEMPHIS | WF4G | 447.825 | 442.825 | N | |
| MEMPHIS | W4ZJM | 448.00 | 443.00 | N | |
| MEMPHIS | KA4IZF | 448.10 | 443.10 | N | TCPR |
| MEMPHIS | W4BS | 448.20 | 443.20 | N | |
| MEMPHIS | WA4QWW | 448.40 | 443.40 | N | A |
| MEMPHIS | KA5RYF | 448.95 | 443.95 | N | |
| MEMPHIS | KA0BRN | 448.975 | 443.975 | N | ALT |
| MEMPHIS | WA4ADT | 449.00 | 444.00 | * | T |
| MEMPHIS | K4RDK | 449.025 | 444.025 | N | |
| MEMPHIS | KA4JXT | 449.10 | 444.10 | N | RP |
| MEMPHIS | WA4KOG | 449.40 | 444.40 | * | |
| MEMPHIS | K0JXI | 449.60 | 444.60 | N | |
| MEMPHIS | K0JXI | 449.80 | 444.80 | N | |
| MEMPHIS | K5FC | 449.825 | 444.825 | N | |
| MEMPHIS | WB4MMI | 449.90 | 444.90 | N | TAL |
| MEMPHIS | WB4NNE | 449.95 | 444.95 | * | O |
| MILAN | WD4ABJ | 447.10 | 442.10 | * | |
| MORRISTOWN | KA4NEX | 449.20 | 444.20 | N | |
| MORRISTOWN | KD4LP | 449.80 | 444.80 | * | A |
| MT JULIET | WB4PUB | 448.05 | 443.05 | * | P |
| NASHVILLE | KJ4ZQ | 439.25 | 421.25 | N | V |
| NASHVILLE | KI4OG | 449.05 | 444.05 | * | PT |
| NASHVILLE | WB4NTM | 449.15 | 444.15 | * | ATL |
| NASHVILLE | KI4OG | 449.575 | 444.575 | * | |
| NASHVILLE | W4AY | 449.675 | 444.675 | N | |
| OAK RIDGE | K4EAJ | 449.40 | 444.40 | * | L |
| OAKFIELD | WA4BJY | 447.20 | 442.20 | * | PTL |
| OSWALD DOME | WD4DES | 447.25 | 442.25 | N | |
| PARIS/GROVE HL | WA4WKS | 448.50 | 443.50 | N | |
| PULASKI | KB4TPI | 439.250 | 421.250 | * | V |
| PULASKI | KB4TPI | 447.150 | 442.150 | * | |
| ROCKWOOD | KA4WJS | 448.975 | 443.975 | * | |
| SHORT MTN | N4OYS | 449.65 | 444.65 | * | |
| WATERTOWN | N4IDG | 449.90 | 444.90 | N | P |

### 920 MHZ

| | | | | | |
|---|---|---|---|---|---|
| MORRISTOWN | KD4LP | 908.80 | 920.80 | * | P |

### 1270 MHZ

| | | | | | |
|---|---|---|---|---|---|
| MEMPHIS | N4MW | 1272.00 | 1292.00 | N | |
| NASHVILLE | N4MEY | 1277.25 | 1439.25 | N | VL |

## VIRGINIA REPEATERS

(Listing updates for some repeaters courtesy of T-MARC)

### 10 METERS

| | | | | | |
|---|---|---|---|---|---|
| CHARLOTTESVILLE | WA4TFZ | 29.60 | 29.60 | * | R |
| NEWPORT NEWS | WB4CTF | 29.60 | 29.60 | * | R |
| ONEIDA PK/BLFLD | WZ8E | 29.58 | 29.68 | * | RL |
| ROANOKE/POOR MT | WB8BON | 29.54 | 29.64 | N | CL |
| STERLING | KD4DN | 29.58 | 29.68 | | M |

### 6 METERS

| | | | | | |
|---|---|---|---|---|---|
| ALEXANDRIA | WA4CCF | 52.13 | 53.13 | N | ML |
| BEDFORD/THAX MT | WB4DBB | 52.15 | 53.15 | * | |
| CENTERVILLE | KA4DCS | 52.58 | 52.48 | | M |
| CHARLOTTESVILLE | WA4TFZ | 52.525 | 52.525 | * | R |
| DANVILLE(DCC) | WB4GJG | 52.13 | 53.13 | * | |
| HERNDON | WD4KHP | 52.62 | 52.82 | | TM |
| LEXNGTN/ROCK MT. | WA4DUM | 52.01 | 53.01 | N | L |
| LOUISA | KA4NNN | 52.07 | 53.07 | N | |
| RICHMOND | WB4FAX | 52.43 | 53.43 | * | A |
| RIDGEWAY | AA4QT | 52.25 | 53.25 | N | |
| ROANOKE | WB4DBB | 52.25 | 53.25 | * | L |
| ROANOKE/POOR MT | WB8BON | 52.09 | 53.09 | N | CL |
| VIRGINIA BEACH | WD8DAS | 52.19 | 53.19 | N | |

### 2 METERS

| | | | | | |
|---|---|---|---|---|---|
| ABINGDN/BRMLY MT | K4LSP | 146.01 | 146.61 | N | L |
| ABINGDON | N4AKZ | 146.34 | 146.94 | N | A |
| ACCOMAC | WA4TVS | 147.855 | 147.255 | * | E |
| ALEXANDRIA | WB4MJF | 144.55 | 145.15 | | M |
| ALEXANDRIA | N4FSC | 144.71 | 145.31 | | MP |
| ALEXANDRIA | WD4PDP | 146.055 | 146.655 | | MP |
| ALEXANDRIA | W4HFH | 147.915 | 147.315 | | ML |
| ALTAVISTA | WA4ISI | 146.055 | 146.655 | * | AL |
| ARLINGTON | N4EFJ | 144.87 | 145.47 | | M |
| BARREN SPRINGS | K4HZS | 146.07 | 146.67 | * | |
| BEDFD/APL ORCH | WB4DBB | 144.63 | 145.23 | * | |
| BEDFORD | WB4JBJ | 147.705 | 147.105 | N | PL |
| BLACKSBURG | AB9I | 146.115 | 146.715 | * | |
| BLAND | N4AZJ | 144.75 | 145.35 | * | RP |
| BLUEFIELD | W8MOP | 144.89 | 145.49 | * | P |
| BRISTOL | WD4CYZ | 146.28 | 146.88 | N | |
| CHARLOTTESVILLE | WA4TFZ | 146.16 | 146.76 | * | |
| CHARLOTTESVILLE | WA4TFZ | 146.325 | 146.925 | * | |
| CHASE CITY | W4AXH | 146.31 | 146.91 | * | |
| CHESAPEAKE | K4NDH | 144.69 | 145.29 | N | E |
| CHESAPEAKE | N4GSP | 146.01 | 146.61 | * | AE |
| CHESAPEAKE | N4SD | 146.19 | 146.79 | * | AE |
| CHESTERFIELD | KA4CBB | 147.96 | 147.36 | * | |
| CHESTERFLD CO | WA4ECM | 147.66 | 147.06 | * | A |
| COVINGTON | WA4HTI | 146.205 | 146.805 | * | L |
| CULPEPER | N4FAF | 147.72 | 147.12 | | M |
| DANTE | WD4CYZ | 147.855 | 147.255 | N | |
| DANVILLE(DCC) | WB4GJG | 146.325 | 146.925 | * | AE |
| DANVILLE/WHT OAK | K4WQS | 146.10 | 146.70 | * | P |
| FAIRFAX | WA4YVM | 144.57 | 145.17 | | M |
| FAIRFAX | W4LBL | 146.19 | 146.79 | | MP |
| FALLS CHURCH | W4AQD | 144.75 | 145.35 | | MT |
| FARMVILLE | WA4QQI | 144.73 | 145.33 | * | |
| FINCASTLE | W4WIC | 146.04 | 146.64 | * | L |
| FRANKLIN | K4SPS | 147.90 | 147.30 | * | PE |
| FREDRICKSBURG | WB4LNT | 147.615 | 147.015 | | M |
| GALAX/BRIRP MT | N4VL | 147.69 | 147.09 | * | A |
| GALAX/LKOUT MT | N4VL | 144.53 | 145.13 | * | R |
| GATE CITY | N4WWB | 146.22 | 146.82 | N | |
| GLADYS | N4SJM | 147.945 | 147.345 | N | RP |
| GLOUCESTER | NB4P | 144.77 | 145.37 | * | E |
| GRUNDY | K4HWQ | 147.92 | 147.32 | N | ANB |
| GRUNDY/BIG A MT | WD4DCX | 146.235 | 146.835 | N | L |
| GUM SPRING | WB4IKL | 147.87 | 147.27 | * | |
| HAMPTON | K4DHO | 146.13 | 146.73 | * | P |
| HAMPTON | K4UMI | 146.34 | 146.94 | N | T |
| HARRISONBURG | WX4C | 147.825 | 147.225 | | AM |
| HARRISONBURG | K4SAD | 147.915 | 147.315 | N | A |
| JEWELL RIDGE | WB4QJZ | 147.75 | 147.15 | N | |
| KILMARNOCK | W2MS | 144.61 | 145.21 | * | A |
| LEESVILLE | N4UTN | 146.235 | 146.835 | N | P |

## MORE VIRGINIA REPEATERS

| | | | | | |
|---|---|---|---|---|---|
| LEXINGTON | KI4ZR | 146.07 | 146.67 | * | R |
| LEXINGTON | KI4ZR | 147.90 | 147.30 | * | A |
| LEXNGTN/ROCK MT. | WA4DUM | 147.93 | 147.33 | N | |
| LUNENBURG CT.HSE | AA4OG | 147.84 | 147.24 | * | |
| LYNCHBURG | W4WWQ | 146.01 | 146.61 | N | |
| LYNCHBURG | AB4M | 146.415 | 147.015 | * | P |
| LYNCHBURG | WA4RTS | 147.795 | 147.195 | * | |
| LYNCHBURG | KB4ILD | 147.975 | 147.375 | N | P |
| MADISON | N4AJO | 147.99 | 147.39 | M | M |
| MANASSAS | WA4FPM | 146.37 | 146.97 | | MP |
| MARION | KC4IH | 146.04 | 146.64 | N | A |
| MARTINSVILLE | KM4ZS | 144.69 | 145.29 | N | A |
| MARTINSVILLE | AB4L | 147.885 | 147.285 | * | |
| MCLEAN | WD4IWG | 147.81 | 147.21 | | MY |
| MIDDLEBROOK | W4WRN | 146.37 | 146.97 | N | E |
| MOUNTAIN LAKE | WZ8E | 147.465 | 146.865 | * | PL |
| MT.LAKE/BALD KNB. | K4TUE | 146.31 | 146.91 | * | P |
| NEW MARKET | K4AVW | 146.025 | 146.625 | | M |
| NEWPORT NEWS | KB4ORI | 144.63 | 145.23 | * | AEC |
| NEWPORT NEWS | WA4OHX | 144.89 | 145.49 | * | AT |
| NEWPORT NEWS | WB4CTF | 147.765 | 147.165 | * | PLR |
| NORFOLK | WA4ZUA | 144.57 | 145.17 | * | ER |
| NORFOLK | NE4D | 146.10 | 146.70 | * | E |
| NORTON/HIGH KNOB | K4AXO | 146.415 | 147.015 | N | L |
| ONEIDA PEAK/BLF | WZ8E | 146.355 | 146.955 | * | PL |
| PEARISBURG | N4AZJ | 147.735 | 147.135 | * | |
| PENNINGTON GAP | N4LQC | 146.10 | 146.70 | N | |
| PETERSBURG | K4ARO | 144.55 | 145.15 | * | |
| PETERSBURG | K4ARO | 147.99 | 147.39 | * | |
| PKS KB/PULASKI | KT4Z | 147.78 | 147.18 | * | P |
| PORTSMOUTH | W4POX | 146.25 | 146.85 | * | AE |
| RICHMOND | K4YPE | 144.51 | 145.11 | * | A |
| RICHMOND | WB4FAX | 144.59 | 145.19 | * | A |
| RICHMOND | W4SQT | 144.83 | 145.43 | * | P |
| RICHMOND | WB4QEY | 146.04 | 146.64 | N | P |
| RICHMOND | WA4ZBE | 146.28 | 146.88 | * | P |
| RICHMOND | W4ZA | 146.34 | 146.94 | * | |
| RICHMOND | WA4JST | 146.43 | 147.03 | N | |
| RICHMOND | N4HB | 147.735 | 147.135 | * | T |
| ROANOKE | N4AP | 146.34 | 146.94 | N | A |
| ROANOKE/POOR MT | KC4DY | 146.145 | 146.745 | * | P |
| ROANOKE/POOR MT | W4CA | 146.385 | 146.985 | * | PL |
| ROANOKE/POOR MT. | WB4QOJ | 144.61 | 145.21 | N | YVKL |
| SALEM | W4PDL | 146.28 | 146.88 | * | |
| STAFFORD | NM7J | 144.67 | 145.27 | | M |
| STANARDSVILLE | N4RAG | 146.295 | 146.895 | * | AE |
| STAUNTON | W4XD | 146.10 | 146.70 | * | |
| STAUNTON | WA4ZBP | 146.25 | 146.85 | * | RY |
| STAUNTON/EL. KB | N4RAG | 147.645 | 147.045 | * | |
| STERLING | WA4TXE | 146.115 | 146.715 | | M |
| STUARTS DRAFT | KB4OLM | 147.96 | 147.36 | N | |
| SUFFOLK/GASBURG | WA4HMT | 146.40 | 147.00 | * | PE |
| TYSONS CORNER | WD4HLF | 146.31 | 146.91 | | MP |
| VIENNA | K4HTA | 146.085 | 146.685 | | M |
| VIRGINIA BEACH | WA4KXV | 146.295 | 146.895 | * | |
| VIRGINIA BEACH | WA4KXV | 146.37 | 146.97 | * | E |
| VIRGINIA BEACH | WA4SBC | 147.645 | 147.045 | N | |
| VIRGINIA BEACH | W4NV | 147.975 | 147.375 | N | |
| VOLENS | WD4LBM | 146.46 | 147.06 | * | P |
| WARRENTON | WB4FJT | 147.765 | 147.165 | | M |
| WARSAW | KA4ZIP | 147.93 | 147.33 | * | E |
| WAYNESBORO | W4BLD | 147.63 | 147.03 | * | O |
| WAYNSBR/BEAR DEN | W4PNT | 147.675 | 147.075 | * | PEL |
| WILLIAMSBURG | W4NTG | 146.07 | 146.67 | * | |
| WILLIAMSBURG | KB4ZIN | 146.16 | 146.76 | * | A |
| WINCH/BLUEMONT | WA4TSC | 147.90 | 147.30 | | M |
| WINCHESTER | W4RKC | 146.22 | 146.82 | * | ME |
| WOODBRIDGE | WB4FQR | 147.84 | 147.24 | | MA |
| WYTHEVILLE | WB3T | 146.175 | 146.775 | * | AL |
| WYTHEVL/SAND MT. | KC4VR | 144.67 | 145.27 | * | |
| YORKTOWN | WD4SDC | 147.825 | 147.225 | N | PT |

### 220 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ALEXANDRIA | WA4CCF | 223.22 | 224.82 | | ML |
| ARLINGTON | KI4MB | 222.46 | 224.06 | | M |
| BEDFD/APL ORCH | WB4DBB | 223.94 | 222.34 | * | RL |
| BEDFORD | N4PLV | 223.24 | 224.84 | * | C |
| CHARLOTTESVILLE | WA4TFZ | 223.50 | 223.50 | * | R |
| DANVILLE | WB4GJG | 222.78 | 224.38 | * | |
| DANVLE/WHITE OAK | N4GLA | 222.84 | 224.44 | * | |
| DELTAVILLE | AA4HQ | 222.40 | 224.00 | * | E |
| FAIRFAX | WB4YHD | 222.50 | 224.10 | | ML |
| FAIRFAX | WD4KHP | 222.82 | 224.42 | | MPLT |
| FALLS CHURCH | N4CHP | 223.38 | 224.98 | M | MP |
| GASBURG/LK GASTN | WA4HMT | 223.00 | 224.60 | * | |
| GLOUCESTER | N4BLQ | 223.02 | 224.62 | * | |
| HAMPDEN-SYDNEY | WB4PEA | 222.60 | 224.20 | * | |
| HAMPTON | KB4UHA | 223.26 | 224.86 | * | AER |
| LEESBURG | WA4TXE | 222.42 | 224.02 | | M |
| LOVETTSVILLE | WB4FUJ | 222.86 | 224.46 | | M |
| LYNCHBURG | AB4M | 222.68 | 224.28 | * | P |
| MANASSAS | WA4FPM | 223.06 | 224.66 | | M |
| MARTINSVILLE | WB4BVI | 222.90 | 224.50 | * | P |
| NORTON/HIGH KB | WA4NDQ | 222.82 | 224.42 | * | |
| PETERSBURG | K4ARO | 223.10 | 224.70 | * | |
| ROANOKE | WB4DBB | 222.50 | 224.10 | * | L |
| ROANOKE/POOR MTN | WB4DBB | 223.34 | 224.94 | * | |
| STERLING PARK | WD4KHP | 222.12 | 223.72 | | M |
| STUARTS DRAFT | KB4OLM | 223.36 | 224.96 | N | AL |
| TYSONS CORNER | WD4KHP | 223.12 | 224.72 | | M |
| VIENNA | K4HTA | 222.34 | 223.94 | | M |
| VIRGINIA BEACH | WD8DAS | 222.58 | 224.18 | N | |
| WOODBRIDGE | WB4GJZ | 223.18 | 224.78 | | M |

### 440 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ALEXANDRIA | WA9GVK | 439.25 | 426.25 | | MV |
| ALEXANDRIA | WA4ZAI | 449.50 | 444.50 | | M |
| ALEXANDRIA | W4HFH | 449.60 | 444.60 | | M |
| ALTAVISTA | WA4ISI | 449.425 | 444.425 | * | AL |
| ARLINGTON | KA4DCS | 444.875 | 449.875 | | M |
| ARLINGTON | KI4MB | 449.15 | 444.15 | | M |
| BEDFD/APL ORCH | WB4DBB | 449.35 | 444.35 | * | L |
| BLUEFIELD | WZ8E | 449.625 | 444.625 | * | PL |
| CHARLOTTESVILLE | WA4TFZ | 449.25 | 444.25 | * | |
| CHESAPEAKE | K4NDH | 448.80 | 443.80 | N | P |
| CHESAPEAKE | N4EVG | 448.90 | 443.90 | * | PE |
| CHESTER/ENON | WA4ECM | 449.20 | 444.20 | * | R |
| COVINGTON | WA4HTI | 447.25 | 442.25 | * | |
| FAIRFAX | KD4DN | 443.725 | 448.725 | | ML |
| FALLS CHURCH | N4EFK | 449.30 | 444.30 | | M |
| FALLS CHURCH | K8ZOA | 449.45 | 444.45 | | ML |
| FOREST | W8CXD | 448.60 | 443.60 | N | LR |
| FOREST | WD4KQI | 449.75 | 444.75 | N | A |
| GALAX/PT LOOKOUT | N4VL | 448.00 | 443.00 | * | L |
| GASBURG | WA4HMT | 447.00 | 442.00 | * | |
| GREAT FALLS | N3AVA | 449.05 | 444.05 | | M |
| HAMPTON | K4UMI | 448.65 | 443.65 | N | |
| HAMPTON | K4OGT | 449.55 | 444.55 | N | T |
| INDEPENDNCE HILL | AA4VA | 448.80 | 443.80 | N | M |
| INDEPENDNCE HILL | AA4VA | 448.80 | 443.80 | | |
| LEXNGTN/ROCK MT. | WA4DUM | 449.15 | 444.15 | N | |
| LYNCHBG/JACK MT. | KF4YI | 447.40 | 442.40 | * | P |
| LYNCHBURG | K4HEX | 426.25 | 923.25 | N | CV |
| LYNCHBURG | AB4FU | 447.95 | 442.95 | * | P |
| LYNCHBURG | K4HEX | 449.50 | 444.50 | N | |
| MANASSAS | WD4JCE | 444.225 | 449.225 | M | ML |
| MARION | N4IQV | 447.00 | 442.00 | N | AL |
| NORFOLK | W4WIN | 439.25 | 426.25 | N | V |
| OILVILLE | KB4MIC | 449.80 | 444.80 | N | P |
| PETERSBURG | K4ARO | 449.40 | 444.40 | * | T |
| PORTSMOUTH | KK4SN | 449.00 | 444.00 | * | AE |
| RICHMOND | N4LFU | 448.35 | 443.35 | * | L |
| RICHMOND | K4ARO | 449.65 | 444.65 | * | |
| RICHMOND | K4ARO | 449.85 | 444.85 | * | |
| RIDGEWAY | AA4QT | 449.90 | 444.90 | N | |
| ROANOKE | WB4DBB | 446.65 | 446.65 | * | L |
| ROANOKE | KA4YUY | 447.175 | 442.175 | * | |
| ROANOKE/LONG RDG | WB8BON | 449.925 | 444.925 | N | |
| ROANOKE/POOR MT | W4CA | 447.50 | 442.50 | * | L |
| ROANOKE/POOR MT. | N4FHL | 426.25 | 439.25 | N | V |
| ROANOKE/POOR MT. | N4VG | 447.70 | 442.70 | * | |
| ROANOKE/POOR MT. | WB8BON | 448.65 | 443.65 | N | L |
| SPRINGFIELD | AA4VA | 449.15 | 444.15 | M | M |
| STAIMTPM/EL KNB | N4RAG | 449.10 | 444.10 | * | |
| STAUNTON | WA4ZBP | 449.825 | 444.825 | * | |
| STAUNTON | W4WRN | 449.95 | 444.95 | N | |
| STERLING | WA4TXE | 447.20 | 442.20 | | M |
| STUART/SPOON MTN | KB4KQI | 448.30 | 443.30 | N | R |
| STUARTS DRAFT | KB4OLM | 449.05 | 444.05 | N | |
| TYSONS CORNER | WB6GUS | 448.50 | 443.50 | | M |
| TYSONS CORNER | K4JYF | 449.75 | 444.75 | | M |
| VIENNA | K4HTA | 448.25 | 443.25 | | M |
| VIRGINIA BEACH | WA4KXV | 449.95 | 444.95 | * | E |
| WAYNESBORO | KA5NOJ | 439.25 | 426.25 | * | V |
| WAYNESBORO | WA4EZA | 449.20 | 444.20 | N | |
| WILLIAMSBURG | W4NTG | 448.95 | 443.95 | * | |
| WILLIAMSBURG | WB5LFS | 449.10 | 444.10 | * | T |
| WINCH/BLUEMONT | WA4TSC | 444.925 | 449.925 | | M |
| WINCHESTER | NB3O | 444.175 | 449.175 | | M |
| WINCHESTER | W3CSG | 447.00 | 442.00 | | M |
| WINDY GAP MT | W4WIC | 448.75 | 443.75 | * | AL |
| WOODBRIDGE | KA4DCS | 444.875 | 449.875 | | M |
| WOODBRIDGE | WB4FQR | 449.90 | 444.90 | | M |
| WOODFORD | WA4SDE | 443.975 | 448.975 | | M |
| WYTHEVILLE | KA4JRL | 448.80 | 443.80 | N | C |
| WYTHEVL/SAND MTN | WB3T | 449.325 | 444.325 | * | AL |

### 920 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ALEXANDRIA | WA4CCF | 907.60 | 919.60 | | M |

### 1270 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ALEXANDRIA | WA4CCF | 1270.60 | 1282.60 | | M |
| APL. ORCH. MTN. | WB4DBB | 1271.02 | 1291.02 | * | PR |
| VIENNA | WR4S | 1272.00 | 1292.00 | | M |

## WEST VIRGINIA REPEATERS

(Listing updates for some repeaters courtesy of T-MARC)

### 10 METERS

| | | | | | |
|---|---|---|---|---|---|
| BERKELEY SPRINGS | KK3L | 29.52 | 29.62 | | M |
| PARSONS | KE8QC | 29.55 | 29.65 | * | TLC |

### 6 METERS

| | | | | | |
|---|---|---|---|---|---|
| BOLT/BOLT MT | N8DKL | 52.05 | 53.05 | N | |
| ST ALBANS/COAL | WD8JKA | 52.03 | 53.63 | N | ATNB |

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**Support SERA**

### 2 METERS

| | | | | | |
|---|---|---|---|---|---|
| ALDERSON | WA8AVZ | 146.13 | 146.73 | N | |
| BECKLEY/BOLT | N8FRV | 144.57 | 145.17 | * | AL |
| BECKLEY/EOC | N8FWL | 144.77 | 145.37 | * | LA |
| BECKLEY/FLAT TOP | K8BO | 146.25 | 146.85 | * | A |
| BECKLEY/LAYLAND | WF1G | 144.71 | 145.31 | * | L |
| BLUEFIELD | W8MOP | 144.89 | 145.49 | * | P |
| BRIDGEPORT | WB8DKM | 147.72 | 147.12 | * | PT |
| BUCKHANNON | N8FHE | 144.53 | 145.13 | * | AL |
| BUCKHANNON | N8FHE | 144.81 | 145.41 | * | A |
| BUCKHANNON | WD8L | 146.25 | 146.85 | * | |
| CHARLES TOWN | N8EIV | 146.385 | 146.985 | M | MA |
| CHARLESTON | WD8OZT | 144.75 | 145.35 | N | |
| CHARLESTON | WS8L | 144.83 | 145.43 | * | P |
| CHARLESTON | WB8IFS | 146.22 | 146.82 | N | A |
| CHARLESTON | KD8TC | 147.81 | 147.21 | N | |
| CLARKSBURG | N8FMD | 146.085 | 146.685 | * | L |
| CLARKSBURG | KE8MR | 147.915 | 147.315 | * | |
| CRAIGSVILLE | KD8OG | 144.67 | 145.27 | N | L |
| ELK GARDEN | N8FMD | 146.145 | 146.745 | * | |
| ELKINS | KB8BWZ | 146.175 | 146.775 | N | |
| FAIRMONT | W8SP | 146.30 | 146.90 | N | NB |
| FLAT TOP/WINTRPL. | WF1G | 146.025 | 146.625 | * | A |
| FRANKLIN | W3RUA | 147.945 | 147.345 | * | |
| GASSAWAY | WB8MZI | 146.01 | 146.61 | N | |
| GLENVILLE | KA8ZXP | 144.69 | 145.29 | * | E |
| GRAFTON | WD8LNB | 147.975 | 147.375 | * | L |
| GRANTSVILLE | N8FXC | 144.85 | 145.45 | * | P |
| HARRISVL/PENSBRO | WB8NSL | 147.90 | 147.30 | N | |
| HORSEPEN MT | NV8H | 147.795 | 147.195 | N | |
| HUNTINGTON | WB8FEQ | 144.61 | 145.21 | N | Y |
| HUNTINGTON | W8VA | 146.16 | 146.76 | N | A |
| HUNTINGTON/CHAS | WB8EZR | 146.04 | 146.64 | * | ER |
| KINGSTON/LICK KB | W8FG | 144.87 | 145.47 | N | |
| LEON | WB8NMT | 147.78 | 147.18 | N | |
| LIBERTY | W8HYX | 144.81 | 145.41 | * | |
| LOGAN | WA8ZLR | 146.09 | 147.11 | N | NB |
| LOGAN/SUMERCO | NU8K | 147.945 | 147.345 | N | L |
| LOGAN/WARD RK MT | KJ8E | 146.37 | 146.97 | N | PL |
| MARMET/BEE MT | K8HDB | 144.55 | 145.15 | N | |
| MARTINSBURG | WA8FSE | 144.55 | 145.15 | M | M |
| MARTINSBURG | WB8VAZ | 147.855 | 147.255 | M | M |
| MCMECHEN | WA8ULB | 146.31 | 146.91 | * | |
| MONTGOMERY | KD8VT | 144.65 | 145.25 | N | |
| MORGANTOWN | K8LG | 144.83 | 145.43 | N | AL |
| MORGANTOWN | W8CUL | 146.16 | 146.76 | * | PL |
| MORGANTOWN | KE8QC | 147.675 | 147.075 | * | PL |
| MT STORM | KA8JTH | 147.705 | 147.105 | N | AL |
| MULLINS/HRNDN MT | KC8IT | 147.63 | 147.03 | * | R |
| NEW MARTINSVLLE | WB8CSW | 147.54 | 146.94 | N | NB |
| OAK HILL | W8OQC | 146.19 | 146.79 | * | E |
| PARKERSBURG | WF8U | 146.145 | 146.745 | * | AE |
| PARKERSBURG | WA8CRW | 146.37 | 146.97 | * | A |
| PARKERSBURG | WA8CRW | 147.99 | 147.39 | * | P |
| PARSONS | KE8QC | 144.73 | 145.33 | * | ALR |
| POINT PLEASANT | W8KNM | 147.66 | 147.06 | N | |
| PRINCETON | KA8PNC | 146.46 | 147.06 | * | A |
| PRINCETON | WB8NRK | 147.825 | 147.225 | * | A |
| PRINCETON/PIPEST | WD8OGY | 146.325 | 146.925 | N | A |
| RAVENSWOOD | WD8JNU | 146.07 | 146.67 | * | P |
| RAVENSWOOD | WD8JNU | 146.10 | 146.70 | * | R |
| RICHWOOD | WB8YJJ | 144.59 | 145.19 | N | |
| SALT ROCK | WD8MCR | 144.51 | 145.11 | N | |
| SCOTT DEPOT | WC8S | 147.87 | 147.27 | * | PEL |
| SHERRARD | KD8GL | 146.115 | 146.715 | * | EPL |
| SO. CHARLESTON | WB8CQV | 146.28 | 146.88 | N | L |
| SPENCER | WT8Z | 147.705 | 147.105 | N | |
| SPRUCE KNOB | N8HON | 147.885 | 147.285 | * | L |
| ST ALBANS | WB8GDY | 146.40 | 147.00 | * | |
| ST ALBANS | KA8SVR | 147.75 | 147.15 | * | PAEA |
| ST ALBANS | K8WMX | 147.975 | 147.375 | * | Y |
| ST MARYS/BENS R | WB8ECC | 147.63 | 147.03 | N | L |
| SUMMERSVILLE | K8VKB | 146.34 | 146.94 | * | |
| TERRA ALTA | KD8ZR | 147.60 | 147.00 | * | AE |
| UPPER TRACT | KB8BUC | 146.055 | 146.655 | * | |
| WEIRTON | KC8JN | 146.34 | 146.94 | N | A |
| WELCH | WB8SXZ | 144.85 | 145.45 | N | |
| WESTON | WD8EOM | 144.79 | 145.39 | N | P |
| WHEELING | WB8JGY | 144.59 | 145.19 | N | PL |
| WHEELING | KC8CR | 146.16 | 146.76 | N | |
| WILLIAMSON | WR8M | 144.73 | 145.33 | * | AR |

### 220 MHZ

| | | | | | |
|---|---|---|---|---|---|
| FLAT TOP/WINTRPL. | WF1G | 222.46 | 224.06 | * | A |
| KINGSTON/LICK KB | W8FG | 223.14 | 224.74 | N | |
| PARSONS | KE8QC | 222.88 | 224.48 | * | ALR |
| WILLIAMSON | WR8M | 222.54 | 224.14 | * | |

### 440 MHZ

| | | | | | |
|---|---|---|---|---|---|
| ALDERSON | WF1G | 449.40 | 444.40 | * | A |
| BECKLEY/KINGSTON | N8FRV | 449.80 | 444.80 | * | |
| BUCKHANNON | N8FHE | 448.10 | 443.10 | * | L |
| HUNTINGTON | WB8EZR | 449.60 | 444.60 | * | |
| JANE LEW | N8FMD | 449.875 | 444.875 | * | L |
| MORGANTOWN | K8LG | 449.70 | 444.70 | N | L |
| MORGANTOWN | W8CUL | 449.80 | 444.80 | N | PL |
| MOUNDSVILLE | KY8O | 439.25 | 421.25 | N | V |
| MULLINS/HRNDN MT | KC8IT | 449.00 | 444.00 | * | LR |
| PARSONS | KE8QC | 447.20 | 442.20 | * | ALR |
| SO. CHARLESTON | WB8CQV | 449.95 | 444.95 | N | RL |
| ST. ALBANS | K8MHR | 448.15 | 443.15 | N | A |
| WHEELING | N8EKT | 449.975 | 444.975 | N | |

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**IC-229A** (U.S.A. VERSION)
**IC-229H** (HIGH POWER VERSION)

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144MHz FM TRANSCEIVER IC-229H
DUP–
146.700
BUSY
1
5
9
M
SKIP
20
V/MHz
M/CALL
PRIO
DUP
T/T.SQL
PGR/CS
HI/LO
SET
VOL
SQL
MW
MONI
POWER
MICROPHONE

## *New dimensions for your mobiling world.*

**Ultra compact**
You might have to look twice to believe the three small dimensions of Icom's advanced IC-229A/E/H, a mobile transceiver built small enough to fit anywhere in your vehicle. With dimensions like these there's no need to worry about installation locations: 140(W) × 40(H) × 105(D) mm.*

*5.5(W) × 4.6(H) × 4.2(D) in, IC-229H: 155(D) mm; 6.1(D) in

**Simple operation**
Perfect for driving safety. Well designed and illuminated switches and controls offer operating versatility even during night-time operation. Your most-often-used front panel switch can be remotely activated with the UP switch on the microphone.

**Auto dialing capability** (U.S.A. version)
The supplied HM-56 HAND MICROPHONE* has 14 DTMF memory channels for storing telephone numbers. No need to push multi-digit phone numbers anymore and great for repeater control.

*Europe and Italy versions: HM-59 HAND MICROPHONE with a 1750 Hz tone call function.

**50 W of high output power**
No problem being heard. The IC-229H has a full 50 W* of high output power. A large heatsink ensures complete heat dissipation even during long periods of operation.

*IC-229A/E: 25 W

**20 memory and 1 call channels**
All memory channels memorize operating, offset and subaudible tone frequencies and duplex shift direction. An independent call channel is built in for storing your most-used frequencies. For the programmed scan function, the transceiver has 2 scan edge channels separately.

**Other advanced features**
- Memory transfer function for quick QSY'ing.
- Memory split function for split frequency operation.
- High/Low selectable audio tone.
- 4-step adjustable RF output power.
- 20 dB RF attenuator to protect against strong signals.
- Programmed, memory scan functions and a priority watch with selectable resume conditions.
- Memory skip function that allows skipping of specified memory channels during memory scan.
- Variety of tuning steps: 5, 10, 12.5, 15, 20, 25 kHz or 1 MHz.
- Pager and code squelch functions for selective calling with an optional UT-55 DTMF ENCODER/DECODER UNIT.
- Pocket beep and tone squelch functions for quiet standby with an optional UT-50 TONE SQUELCH UNIT.

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# REPEATER JOURNAL VE/VEC EXAMINATION SCHEDULE

## TENNESSEE

**Blount County, Maryville WCARS-VEC**
Second Monday on each even month, Dec.10, 1990, and Feb.11, Apr.8, Jun.10, Aug.12, Oct.14, & Dec.8, 1991. 7:00 P.M. at St. Andrews Church Hall, W. Broadway, Maryville. Walk-ins normally accepted. Contact: Carrol Peabody, W4PCA (615) 982-5839. Talk-in: 146.85.

**Carter County WCARS-VEC**
Walk-ins accepted if registered by 8:45 a.m. Exams some Saturdays at 9:00 a.m. Contact Joe Hopkins, K4BKI, (615) 543-4022 for schedules.

**Chattanooga WCARS-VEC**
Exams held at Red Cross Building. Pre-registration required 2 days in advance. For scheduling information, contact Bruce Adams, KA5DLV (615) 899-9687. Talk-in: 146.79 & 224.78.

**Cleveland WCARS-VEC**
Quarterly Exams at STAR Club Building. Saturday Afternoons at 3:00 p.m., Dec.8, 1990, and Mar.9, JUn.8, Sep.14, and Dec.14, 1991. Walk-ins normally accepted. Contact: Russell E. Lawson, WB4LCB, 802 SE 20th St. Cleveland, Tn. 37311. (615) 476-8476. Talk-in: 147.18 & 146.91.

**Fentress County WCARS-VEC**
Walk-in exams scheduled some Saturdays at 6:00 p.m. For information contact: Mike Ledbetter, AB4BX, (615) 879-8626 or alt: Steve Qualls, KJ4HT, (615) 879-7517. Talk-in: 147.09.

**Greeneville WCARS-VEC**
Exams on 4th Saturday of each odd-numbered month at Roby Adult Center on College St., Nov.25, 1990 and Jan.26, Mar.23, May 25, Jul.20, Sep.28 and Nov.23 for 1991. Walk-ins normally accepted. Contact: Jack Creed, K4EPC, 826 Rosebud Dr., Greeneville, Tn. 37743. (615) 638-7056. Talk-in: 147.39 & 224.94..

**Henry County WCARS-VEC**
Walk-in exams held at Henry County High School, Paris. Contact Mackie Gallimore AA4YF, (901) 247-5489 for future schedules. Alt. Les Merrell, KQ4F, (901) 642-5966. Talk-in: 147.165.

**Jasper WCARS-VEC**
Walk-in exams held Sunday afternoons at Jasper Public Library. For schedules, contact: Charles Wooten, KD4XX, (615) 942-5116. Talk-in: 145.19.

**Knoxville WCARS-VEC**
Third Saturday of each month normally. Upgrades only. Novice testing on request from NY4A, N4BAQ, ND4F, WA4GZE, N4IJL, W4MHA, KM4SX, WA4TKN and others. Pellissippi State Tech. Room B-129. (except Hamfest dates) Pre-registration required. Contact: Ray Adams, N4BAQ, 4325 Felty Dr., Knoxville, Tn. 37918. (615) 688-7771. Alt. Rich Slover, ND4F, 2700 Waverly St. #4, Knoxville, Tn. 37921, (615) 539-4821. Sked: Jan.26 (Sevierville Swapfest), Feb.10, Mar.16, Apr.2 (Oak Ridge Hamfest), June 1 (Knoxville Hamfest) Jun.15, Jul.20, Aug.17, Sep.21, Oct.19, Nov.16 and Dec. 21, 1991. Talk-in: 147.30 & 224.50

**Loudon County, Loudon WCARS-VEC**
Fourth Saturday of each even month, at Third National Bank on U.S. 321 E. (321 is Exit 81 on I-75, then East to Bank) Walk-ins normally accepted. Sked: Dec. 22, 1990, and Feb.23, Apr.27, Jun.29, Aug.24, Oct. 26, & Dec. 21, 1991. Contact: Bob Gray, KE4SK (615) 458-6115. Talk-in: 145.17.

**McMinn County WCARS-VEC**
Exams on 2nd Monday evening at 8:00 p.m. of each odd numbered Month, at Athens Municipal Building Council Chambers. Walk-ins accepted. Sked: Nov.12, 1990 and Jan. 8, Mar.11, May 13, Jul.8, Sep.9 and Nov.11, 1991. Contact Ben C. Dickson, W4NEG, (615) 745-2198. Alt. Evan Ray, WA4PNI. (615) 263-9300. Talk-in: 145.31.

**Metropolitan Memphis Area ARRL-VEs**
Exams on First Saturday in August and December at 9:00 a.m. at State Technical Institute in Memphis. Exams also at "Memfest '91" in Oct. at Mid-South Fairgrounds. Pre-registration for all sessions within 2 days of exams. Contact Harry Simpson W4MI at 1830 Macaulay Ave., Memphis, Tn. 38127. Call (901) 357-8148.

**Morgan County WCARS-VEC**
Second Saturday of each odd month at Joyner Volunteer Fire Dept., Coalfield. Sked: Nov.10, 1990 and Jan. 12, Mar.9, May 11, Jul.13, Sep.14, and Nov.9, 1991.. Walk-ins normally accepted. Contact: Paul Seavers, AA4UP (615) 435-6052. Talk-in: 146.745.

**Roan County WCARS-VEC**
Second Saturday of each even month at Pond Grove School, Rockwood. Sked: Dec.8, 1990 and Feb.9, April, Jun.13, Aug.10, Oct.12, and Dec.14, 1991. Walk-ins normally accepted. Contact: Richard Spillee, AA4KS, (615) 354-4281. Alt. Bill Smelcer, KA4AAD, (615) 882-9070. Talk-in: 147.015.

## WEST VIRGINIA

**Bluefield W5YI-VEC**
Exams (Novice thru Extra) second Saturday each Quarter, Feb., May., Aug., and Nov. 9:00 a.m. Bluefield State College. Walk-ins are preferred. Contact: Don Williams, WA4K, (Bluefield VE Team) (703) 326-2411 or (703) 326-3338.

**Charleston, W.Va. W5YI-VEC**
The Kanawha Valley group gives Novice thru Extra class exams at 9:00 a.m. 3rd Saturday of each month, at Holy Trinity Catholic Church in Nitro. Walk-ins are accepted. Talk-in on 40-00 St. Albans repeater.

## VIRGINIA

**Danville W5YI-VEC**
Exams held last Tuesday of each month January through November at Danville Community College, Hill Building. Contact Jim Bond, AB4FZ, (804) 799-2422 for further information.

**Roanoke WCARS-VEC**
Walk-in exams are held at Hollins College. For info, and 1991 dates, contact Fred L. Horton, KZ4Y, 4024 Oakland Blvd., Roanoke, Va. 24012. (703) 366-6266. or Ben Giavaden, N4BG, Rt. 7, Roanoke, Va. 24022, (704) 344-7000. Novice testing on request. Talk-in on 146.985.

**Norfolk, Va. Beach, Hampton Roads, Portsmouth, Chesapeake, Wmsburg.**
All exams: Walk-ins are ok, but contact person would like to know in advance you are coming. Bring original license and photo copy and any license upgrade certificates. See individual exams for Contact person.

ARRL EXAMS - $4.95 Check payable to ARRL/VEC W5YI Exams - $4.95 Check to Bill Verebely/VEC for Chesapeake DX Assn Exams, Check to HRRA/VEC for Hampton Roads RA exams.

**Southeastern Virginia Schedule**
HAMP.RDS EXAMS W5YI/VEC contact Bill Runyon, N4BDH, 487-8611.

PORTSMOUTH ARC ARRL/VEC contact Art Thiemens, AA4AT 484-2857.

VIRGINIA BEACH ARC ARRL/VEC- contact-Tom Weikel, KA4UNC 340-7697.

## NORTH CAROLINA

**Asheville WCARS-VEC**
Exams on Saturday Jan.26, Apr.27, July 27th (At Hamfest), and Oct. 26, at 9:00 a.m. at Health and Social Services Bldg. Walk-ins normally accepted. Contact Garland Lance, NC4N, 854 Sand Hill Rd., Asheville, NC 28806 (704) 667-3758. Talk-in: 146.91 & 224.60.

**Asheville WCARS-VEC**
Second Saturdays: Dec. 8, 1990, and Mar.9, Jun.11, Sep.14, and Dec. 14 for 1991. Held at 9;00 a.m. at Leicester Vol. Fire Dept., 9.3 mi. N. of Patton Ave. on Hwy 63. Walk-ins normally accepted. Contact Larry York, WB4PLA, Rt. 4, Box 420 Martin Br. Rd., Leicester, N.C. 28748. (704) 683-1400. Talk-In: 146.91 & 224.60.

**New Bern WCARS-VEC**
Walk-in exams held at New Bern High School. Possible date of Dec. 29, 1990-check!! 1991 Sked: Aug.24, Oct.26 and Dec.28, 1991. For info contact: Andy Griffith, W4ULD, 203 Lord Granville, Dr., rt.2, Morehead City, NC 28857. (919) 726-5924.

**Raleigh and Durham**
Raleigh ARS and Durham FMA VEs conduct examinations alternating monthly between Durham and Raleigh. Pre-registration generally requested, but walk-ins are accepted until 30 minutes prior to exam time. Contact: AA4MY or KY4Y for further information and schedules.

**Yadkinville ARRL-VEC**
Walkin exams, 2nd Saturday of every month, 9:00 a.m. at Yadkinville Elementary School, Nov.10 and Dec.8. 1991 Schedule should be the same. For info, contact Fred Pepper, N4UAN, Rt. 6, Box 574, Yadkinville, Nc 27055. (919) 679-8954.

**Salisbury W5YI-VEC**
Central Piedmont ARC VE team has Exams on 2nd Sunday from 1:00 to 4:00 p.m. monthly. Pre-registration requested. Walk-ins may or may not be accepted. For info and registration, contact Isabelle Ledford, AB4UX, P.O. Box 826, Cooleemee, N.C. 27014. (704) 284-2414.

## GEORGIA

**Augusta ARRL-VEC**
Exams conducted at Fort Gordon, Bldg. 31424 at 9:00 a.m. 1990 schedule: Oct.13 and Nov. 10. Contact: Ace Norton, NA4I (404) 798-5060.

**Augusta WCARS-VEC**
Exams on 2nd Saturday of each Odd numbered month at Sue Reynolds Community Center. Code tests at 10 a.m. Written elements at 11 a.m. Walk-ins normally accepted. Schedule: Nov.10 1990, and Jan. 12, Mar.9, May 11, Jul.12, Sep.13 and Nov.8, 1991. Contact Jim Abercrombie, N4JA, 2360 Travis Pines Rd., Augusta, Ga. 30906. (404) 790-7802. Talk-In: 145.49.

**(Metro Atlanta Area Examinations)**

**Lawrenceville W5YI-VEC**
Exams scheduled 1st Sunday each month at 2:00 p.m. at Jackson EMC, 461 Swanson Rd., Lawrenceville. Fee $4.75. Walk-ins accepted. Contact Duane Reynolds, WB2YAD, 962-9582.

**Peachtree City CA-VEC**
Exams scheduled 1st Saturdays at 12:00 noon at Peachtree City City Hall. Take exit 12 off I-85 and go South on Hwy 74. Walk-ins ok. Contact Mike Murphy, KB4KZY, 487-7494.

**Stone Mountain CA-VEC**
Schedule is 2nd Saturday of each month, at 8:30 a.m. at Stone Mt. Methodist Church, 5312 W. Mt. St. Walk-ins accepted. Contact Hal Martin, KI4RD, 469-6430. Fee $4.00.

Continued on Following Page

## VE/VEC EXAMINATION SCHEDULE
*(Continued from Previous Page)*

**Southern Tech CA-VEC**
Exams on 3rd Saturday each month. Walk-ins accepted. 9:00 a.m., at Southern Tech, Room 209, Classroom Bldg.. (Exit 112 from I-75) Contact Hal Martin, KI4RD, 469-6430. $4.00 fee.

**DeKalb County CA-VEC**
Walk-in exams held 4th Thursday of the month at 7:00 p.m. at DeKalb Co. E.Precinct, Lithonia. Contact Harvey Pearson, WB4PHF, 972-5061. $4.00.

**North Atlanta ARRL-VEC**
Walk-ins accepted for exams held on 4th Sunday each month at 2:30 p.m. at Church of the Atonement on Highpoint Rd. Contact Neil Foster, KC4MJ, 449-3340. Fee $4.75.

**Dalton WCARS-VEC**
Fourth Saturday of each even numbered month at Unity Methodist Church at 4:00 p.m. Pre-registration-send 610 to arrive no later day before exam. Contact Bert L. Coker, N4BZJ, 1320 Michael Dr., Tunnelhill, Ga. 30755. (404) 673-2214. Alt. Contact, Harold W. Jones, N4OTC, P.O. Box 211, Rocky Face, Ga. 30740. (404) 278-7077. Talk-in: 147.315 & 224.74.

### KENTUCKY

**Hazard WCARS-VEC**
Examinations usually held on some Tuesdays at 7:00 p.m. at Ray G. Eversole School. Walk-ins normally accepted. For exact dates and additional information, contact John Farler, K4AVX, (606) 436-5354.

**Middlesboro WCARS-VEC**
First Saturday at 10:00 a.m. of each even numbered month at Middlesboro Library.and Dec.1, 1990, Feb.2, Apr.6, Jun.1, Aug.3, Oct.5 and Dec. 7, 1991.. Walk-ins normally accepted. Contact Wade Bevins, WA4OBL (606) 337-8165, or alternate James Dyke, KZ8A, (615) 869-4453. Talk-in: 146.775.

### SOUTH CAROLINA

**Charleston WCARS-VEC**
Exams third Saturday of each odd-numbered month at 9:00 a.m. Nov. 17, 1990 and Jan.19, Mar.16, May 18, Jul.20, Sep.21, and Nov.16, 1991. Walk-ins normally accepted. Contact: Werner E. Dolder, AA4IX, 327 Heber Rd., Summerville, SC 29483, (903) 873-9465.

**Greenville WCARS-VEC**
Exams 1st Saturday of each odd-numbered month at 8:30 a.m. at Greenville Technical College. Sked: Jan.5, Mar.2, May 4, July, Sep., Nov.2, 1991. (July and Sept. dates to be announced later) Walk-ins normally accepted. Contact Sue L. Chism, N4ENX, 203 Lanewood Dr., Greenville, SC 29607. (803) 288-0136.

**Lancaster W5YI-VEC**
Novice thru Extra. Pre-Regis, or Walkins. 9:30 a.m. USC, Main Bldg. Talkin 10-70. Contact Grady Robinson, AK4N, 902 Forest Dr., Lancaster, SC 29720. (803) 283-8298. Exam Dates: Aug. 19, Dec. 15.

### MISSISSIPPI

**Hattiesburg WCARS-VEC**
Walk-in examinations are held at the Pinebelt Airport Building. For info. and schedules, contact: James W. Delancy, WC5H, 604 Maplewood Drive, Hattiesburg, MS 39402. (601) 264-8325.

# Coordination Policy In This Issue

This issue of the Repeater Journal contains a special printing of the officical SERA Coordination Policy. You are encourage to remove the green section from the middle of the book, and read it.

The policy gives details as to how the coordination process works, what to do in case of interference, what the coordinator will do for you. When to call the FCC in, and much other very vital information concerning use and operation of repeaters is also included.

This far-reaching document is perhaps the most detailed, complete coordinatin policy ever written. It has bee updated to reflect Part 97 rule changes every few months. The last changes were made at the August SERA Board Meeting.

If you take time to read the Policy, you will see that your SERA Officers and Directors had to put much time and effort to put together a document like this one.

The Coordination Policy is the "Bible" of the Coordinator. With this document, he has all the tools necessary to coordinate. Repeater owners who have previously received a copy, have all the information they need about putting on a repeater, coordination, and how to get help.

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SERA Financial Report
— *by Ray Adams, N4BAQ*
*SERA Treasurer*

***SouthEastern Repeater Association, Inc.***

FINANCIAL REPORT FROM JANUARY 1 TO SEPTEMBER 30, 1986, 1987, 1988, 1989, AND 1990

| Dues | $5/$10 | $6/$15 | $6/$15 | $6/$15 | $6/$15 |
|---|---|---|---|---|---|
| REVENUES | 1986 | 1987 | 1988 | 1989 | 1990 |
| Advertising | $ 5,827.75 | $ 3,671.50 | $ 5,792.00 | $ 7,084.00 | $ 8,672.70 |
| Associate membership dues | 9,548.00 | 8,983.00 | 9,729.50 | 8,507.25 | 7,512.00 |
| Full membership dues | 2,488.75 | 2,789.50 | 3,394.00 | 3,882.50 | 5,807.00 |
| Decals | 63.50 | 16.00 | 116.50 | 31.00 | 33.50 |
| Postage - includes HOT-P | 205.50 | 202.50 | 103.50 | 135.00 | 164.50 |
| Interest | 190.66 | 306.31 | 425.97 | 216.55 | 338.09 |
| Hats | 123.37 | 3300 | 47.50 | -0- | -0- |
| Contributions | 182.00 | 102.00 | -0- | 336.40 | 100.00 |
| Other | 83.64 | 14.00 | 12.00 | 100.00 | 95.25 |
| | $18,713.17 | $16,117.81 | $19,620.97 | $20,292.70 | $22,723.04 |
| EXPENSES | | | | | |
| Journal mailing | $ 2,509.74 | $ 1,930.57 | $ 2,061.44 | $ 2,363.18 | $ 2,311.87 |
| Journal production | 9,427.53 | 12,273.44 | 12,012.71 | 15,511.23 | 13,121.32 |
| Miscellaneous | -0- | 69.95 | 100.00 | 115.75 | 140.00 |
| Travel and meetings | 1,428.90 | 2,051.22 | 1,241,72 | 1,856.42 | 1,469.98 |
| Office expenses | 31.35 | 171.10 | 208.65 | 386.47 | 587.35 |
| Amortization of office machines | 448.00 | 875.63 | 862.24 | 1,125.90 | 1,322.52 |
| Postage - other than Journal | 321.44 | 336.48 | 898.79 | 1,368.26 | 859.28 |
| Printing - other than Journal | 168.32 | 571.62 | 494.76 | 418.41 | 464.64 |
| Telephone | 465.62 | 349.67 | 732.04 | 426.12 | 515.56 |
| | $14,800.90 | $18,629.68 | $18,612.35 | $23,571.74 | $20,792.52 |
| REVENUES OVER (UNDER) EXPENSES | $ 3,912.27 | ($ 2,511.87) | $ 1,008.62 | ($ 3,279.04) | $ 1,930.52 |
| Balances, Beginning of year | | | | | |
| Expenses advanced | $ 950.00 | $ 900.00 | $ 900.00 | $ 900.00 | $ 900.00 |
| Invested in office machines | 896.00 | 2,571.63 | 1,696.00 | 3,026.00 | 3,203.60 |
| Cash in bank | 2,107.05 | 5,690.15 | 7,252.05 | 5,393.35 | 4,156.54 |
| | $ 3,953.05 | $ 9,161.78 | $ 9,848.05 | $ 9,319.35 | $ 8,260.14 |
| EQUITY TO ACCOUNT FOR | $ 7,865.32 | $ 6,649.91 | $10,856.67 | $ 6,040.31 | $10,190.66 |
| Less: Expenses advanced | $ 900.00 | $ 900.00 | $ 900.00 | $ 900.00 | $ 900.00 |
| Invested in office machines | 448.00 | 1,696.00 | 3,026.00 | 3,203.60 | 2,749.00 |
| | $ 1,348.00 | $ 2,596.00 | $ 3,926.00 | $ 4,103.60 | $ 3,649.00 |
| CASH IN BANK | $ 6,517.32 | $ 4,053.91 | $ 6,930.67 | $ 1,936.71 | $ 6,541.66 |

# WEST ANTENNA SERVICE – YOUR SOURCE FOR ROHN TOWERS AND ACCESSORIES

### Rohn 25G Straight Sections

In addition to a large stock of straight tower sections, we also have flat and sleeved top sections, thrust bearings, house brackets, short base sections, rotor plates, guy assemblies, guy wire, cable clamps, turnbuckles – you will need for a complete tower installation.

### Utility Poles & Hardware

We have a limited variety of utility pole hardware and can supply utility poles in the Greensboro, N.C. area.

### Scotchkote Electrical Coating

Made by 3-M Co. This can be used for underwater connections also. A 15 oz. can will do 50 to 100 connections.

15 Oz. can Scotchkote coating . . . $10.00

### Rope

West Antenna has a huge inventory of all types of synthetic rope in all sizes to fit your every need. Large or small, your rope requirements can be met by us.

**CHECK THESE ROPE SPECIALS: BLACK TWISTED POLYPROPHELENE**

Good for dipoles or overhead supports on beams at a very low cost. Lasts two or three times longer in the sun than regular poly rope.

| | |
|---|---|
| ¼ inch | 4 cents/foot |
| 600 foot spool | $20.00 |
| 1,000 foot spool | $30.00 |
| ⅜ inch | 8 cents/foot |
| 600 foot spool | $40.00 |

### Hard Line and Connectors

West Antenna can also supply ½, ⅞, 1¼, and 1⅝ inch hard line in corrugated copper, as well as ¼ inch corrugated copper superflex. We also have a limited stock of hard line connectors. If we do not have the connectors you need, they can be supplied within approximately 10 days.

### Cadweld

The fastest and most reliable connections for buried or above ground rods. This system provides a molecular bond that can't loosen, can't corrode, isn't subject to galvanic corrosion, and is capable of carrying more current than the grounding conductor itself. West Antenna Corporation can supply and install ground systems for commercial tower sites.

### Battery Taps

Assembly provides connection to battery cable on the new side-terminal batteries, or any connection situation where terminals are not accessible. Slips over cable and set screw penetrates jacket for contact. Radio wire slipped into hole and second set screw tightens. This has proven quite adequate for high current needs.

Battery Taps . . . . . . . . . . . $4.95 ea.

### Polyphaser Lightning Suppressors

High quality commercial units. Low loss, low noise. Frequency range through 2 Ghz. Bulkhead and inline types are available, including rotor cable and D.C. control lines. Call for prices.

2-way shops are urged to check for Dealer Pricing.

### Miscellaneous

| | |
|---|---|
| PL-259 Connectors (U.S. Made) | .65¢ |
| 10 or more | 60¢ |
| UG-175 or 176 Adapters | 30¢ |
| 10 or more | 25¢ |

### Other Tower Accessories

Aluminum mast pipes, feature 2 inch OD 6061 tubing with ¼ inch wall.

12 foot lengths, 19 lbs. - In Stock
24 foot lengths, 38 lbs. - In Stock

Touch rust spots on your tower and antenna bolts with RUSTOLEUM, cold galvanizing.

Large Industrial spray can . $8.00

### Stainless Steel Strapping Kits

Stainless steel strappings kits, for strapping hardline or multiple runs of Coax. Kits come with 25, 50, or 100 feet of stainless steel strapping and buckles.

### For the Ultimate Mobile Installation

We have what you need - wire, fuse blocks, fuses, connectors, relays! You want your Mobile Low Band or amplifier installation to work efficiently. We have the proper wire, fusing and parts needed for a perfect installation.

WIRE - Single Conductor-Stranded.
red or black vinyl insulation
#10 wire . . . 30¢ per foot
#14 wire . . . 20¢ per foot

FUSE BLOCKS - Our fuse blocks are rugged, holding fuses much larger than the little 3AG glass type. This prevents overheating and voltage loss with high currents. Set screws in end of fuse blocks will accept wire up to #6.

| | |
|---|---|
| 30AMP Fuse Block | $4.95 |
| 60AMP | $5.95 |

Fuses - 5,6,7,8,10,20,25,30 Amp . . . . . . . . . . . . . . . . . . 80¢ each
35,40,45,50 & 60 Amp. Fuses also available upon request.

**RELAYS** - These Motorola Type A style relays can be installed near the fuse block in the fenderwell and remotely switched under the dash with a small toggle switch. Excellent for switching high current lines. Relays are a closed type with screw terminals for mounting . . . . . . . . . . . . . . . . . Special $13.95

40 Amp. cont. duty solenoid-type, 12 V . . . . . . . . . . . . . . . . . $34.95
(Commercial Dealers, call for Dealer Prices)

### Other Accessories at Good Prices!!

Guy Wire Insulators - Compression-type porcelain. Approx. 1½ x 2½ inches, ⅜ inch hold.

| | |
|---|---|
| Insulators | $2.40 |
| 10 or more | $2.10 |

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# GARS - GREENWOOD, SC

# HAMFEST

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Earl Gillian, K4VIA, 405 Draper St., Greenwood, SC 29646 Ph. 223-4436

Pre-registration
Eldora Keck, 152 Cherokee Dr., Greenwood, SC 29646 Ph. 229-3676

**TABLES FOR DEALERS OR FLEAS ARE $5.00 EACH**
**TAILGATE FEE IS $3.00 PLUS ADMISSION**
**TALK-IN 147.765 - 147.165**

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## Repeater Owners!!! Time to Renew or Join SERA Full Membership

**In case you lost your Datasheet, or didn't get one, you are invited to use this short form to join SERA as a Full Member. Two persons will receive the Journal, and your repeater(s) will be listed in our index as Full Members. Deadline for insertion as member in February 1991 Journal is January 15th.**

**Submit form (or copy) and check for $15.00 to SERA MEMBERSHIP, P.O. Box 215, Tobaccoville, NC 27050.**

### *SouthEastern Repeater Association, Inc.*

**SERA is Coordinator for NC, SC, VA, WVA, TN, KY, GA & MS.**

FULL REPEATER MEMBERSHIP APPLICATION FOR YEAR ____________

| City/Mtn (Max 14 Char) | Callsign | Input Freq. | Output Freq. | |
|---|---|---|---|---|
| | | | | No. 1 |
| | | | | No. 2 |
| | | | | No. 3 |
| | | | | No. 4 |

Name Two Full Member Representatives to SERA (Only These Two Persons Receive The Journal.)

Name ____________ Call ____________
Address ____________
City ____________ State ______ Zip ______
Phone: ( ) ____________
ARRL Member ( ) Yes ( ) No

Name ____________ Call ____________
Address ____________
City ____________ State ______ Zip ______
Phone: ( ) ____________
ARRL Member ( ) Yes ( ) No

Membership: New______ Renewal______ Fee Enclosed ( ) Yes ( ) No Amount:____________

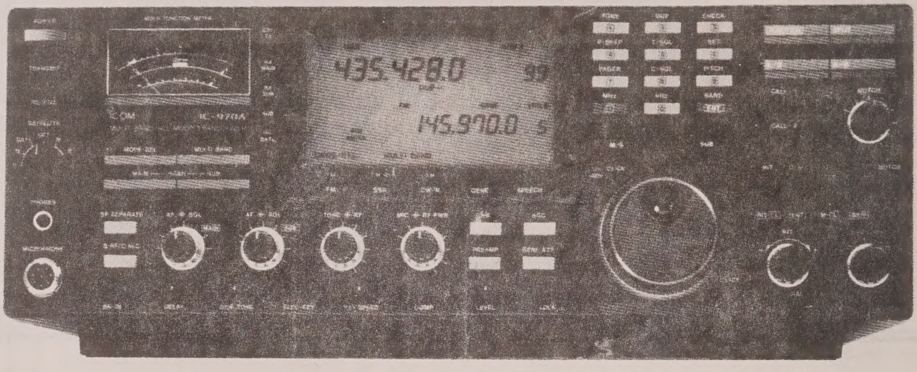
Repeater Sponsor ____________ Date ____________

ICOM

F & M Offers
The Best Prices!

All Mode Multi-Band Transceiver

# IC-970



Designed for the serious operator on 144, 440 and 1200MHz, ICOM's IC-970 all mode multi-band transceiver provides the best of tomorrow's technology for DX, digital and satellite communications today.

**Versatile Communications.** ICOM's IC-970 comes fully equipped as an all mode dual bander for 144MHz and 440MHz. Operate the 1200MHz band by installing the optional UX-97 band unit or listen to what's happening in the world with the UX-R96 wide band receiver unit - receives 50-905MHz continuously.

**Available in Two Power Versions.**
IC-970A - 25W with built in PS-35 power supply.
IC-970H - 5-45W on 144MHz (35W on SSB, CW)
5-40W on 440MHz (30W on SSB, CW)

**Automatic Uplink and Downlink Tracking.** Communications via satellite has never been so easy. The IC-970 locks your uplink and downlink frequencies together when changing frequency.

**Multiple Scanning Systems.** Allows you to hear what you want when you want to hear it.

**Up to 396 Memory Channels plus Five Call Channels.** ICOM's IC-970 features 99 memory channels per band. Each memory stores frequency, mode and other operation information. You can also store most used frequencies in each band in a call channel.

**Multi-function Display.** Large, easy-to-read function display provides excellent visibility of both main and sub band operating frequencies along with all other operating information.

**Receives Main and Sub Band Audio Separately.** The IC-970 allows operating as if there are two separate receivers. Both main and sub band audio are emitted separately when an external speaker or stereo headphones are connected. In addition, audio for both are regulated with independent volume and squelch controls.

Need Used Equipment! Chances are F & M Just Might have That Used VHF/UHF or HF Transceiver You are Looking For!

***We Stock the Full line of ICOM Transceivers and Accessories!***

● Parts ● Accessories ● Microphones ● Batteries ● Books ● Antennas

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153 RAILROAD STREET
PELHAM, GA. 31779
10:00 a.m. to 7:00 p.m. Daily. Closed Mondays.

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## Keep your Mobile Antenna Efficient

If you have a 5/5 wave mobile antenna, especially the modular kind, it pays to take out the whip, shine the end, and scrape it around the inside of the cone to shine things up. Also screw the coil off the mount, and see that the connector is shiny.

Just this little preventative maintenance every month or so will keep your mobile antenna operating at peak efficiency, and keep unwanted VSWR down. If your transceiver stays mounted in the vehicle, check your antenna connecter at the rear to see that it is still tight. While at it, check your power cable connector, and microphone screw on.

**WD4BUM'S**

**1/4 WAVE MAG. MOUNT ANTENNAS**

**ONLY $15.00**

**Complete with strong chrome plated magnet & 15' RG58 coax. A PL259 is installed.**

**ORDER - M300 for 2M**
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**M302 for 440 Mhz**

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# COACH'S CORNER

## DC Power For H/T At Your Shack

Many of us have new handi-talkies which have DC to DC built-in. Most of us have either made up, or bought a cigarette power cable to enable us to power the H/T quickly from the car.

Here is a neat idea for the house. Go to a junk yard, or an auto parts store and pick up a cigarette lighter from or for an automobile. Throw away the lighter element and mount the base of the lighter somewhere on your ham bench. Run two power leads to your 13.8 Volt power supply, being sure to observe proper polarity. Now you can take the cigarette power cable and plug it right in your ham bench for DC to DC operton of your H/T in the house.

You can go a step further by making up a 4 or 5 foot RG-58 cable, with a BNC on one end for your H/T, and SO-239 (or PL-259 and barrel adapter) on the other end. This way, you can also connect your H/T to an outside antenna, and have some walking room, with the light flexible RG-58 cable connected to your bulky RG-8 antenna incoming cable.

## Data Sheets Mailed In Early October

We got an early start, allowing ALL repeater owners much more time this year. The repeater datasheets were all put in the mail by the 2nd week of October. The sheets must be returned corrected or completed no later than December 31st, 1990.

Enclosed with the datasheets was a copy of the SERA coordination policy, and an application to join as a Full Member.

All repeater owners are urged to BE SURE to get their datasheets returned to SERA. YOU DO NOT HAVE TO JOIN SERA, but we MUST have your datasheet, as proof that you have a repeater on the air.

Our repeater index is updated and based on the datasheets. Our corrected November index is passed on to the ARRL for the 1991 ARRL National Repeater Directory. The datasheets are also used to update the National Coordinators Database.

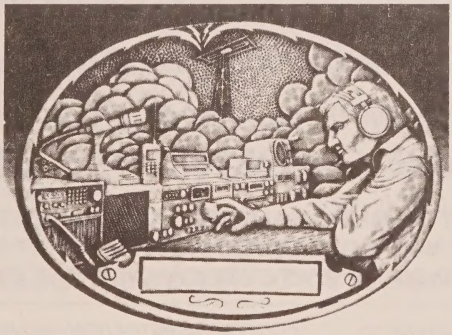
If you are a repeater user, be sure to ask your owner, or club trustee if the datasheet has been mailed in;

Remember, we MUST HAVE IT BY DECEMBER 31.

**HAM RADIO OPERATOR BUCKLE**

Not Just A Buckle,

But A Work Of Art



Finishes Available are:

Antique brass - $21.95
Silver or gold plate - $30.00
24 K gold with silver inlay - $50.00

*Add $1.50 to above prices for postage and handling.*

We are proud to offer for the first time this outstanding buckle from one of America's finest buckle craftsmen. First carefully handcrafted and then after 32 inspections for quality of detail and workmanship cast in solid jewelers brass with the "lost wax" method, it is truly the most beautiful buckle you have ever set your eyes on.

It measures 3 and 3/4 inches across and it is 2 and 3/4 inches high. Your call sign will be diamond engraved in attractive 3 line Roman lettering.

**The Cap 'N' Badge Man**

**P.O. Box 652, Fairforest, S.C. 29336**
**(803) 576-8617 (24-Hour Answering Service)**

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## We Have Moved To A New Location!

- PARKING FOR 3500 CARS ON SITE
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- LOTS OF RESTAURANTS WITHIN A BLOCK OF HAMFEST
- MOTELS DIRECTLY ACROSS THE STREET
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- MORE ROOM
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- EASIER (OFF THE STREET) LOADING AND UNLOADING
- NO MORE DOWN TOWN TRAFFIC

## AND WE STILL HAVE:

- OVER 160 COMMERCIAL EXHIBIT BOOTHS
- OVER 500 FLEA MARKET TABLES
- FORUMS - FCC EXAMS
- TREMENDOUS DOOR PRIZES
- 104,000 SQ.FT. OF AIR-CONDITIONED EXHIBIT SPACE

***THE LARGEST HAMFEST IN THE SOUTHEAST***

**NOW 1 WEEK EARLIER**

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***TICKETS* $6 PRE-REGISTRATION *$8 AT THE DOOR**
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**CHILDREN UNDER 12 - FREE (PARKING - $2)**

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POWER
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THE BRILLIANT NEW PCS-6000 2M FM TRANSCEIVER FINALLY AVAILABLE THROUGH AZDEN'S USE OF THE LATEST MICROCOMPUTER TECHNOLOGIES ALONG WITH HIGH DENSITY MOUNTING PRODUCTIONS EXPERTISE.

The AZDEN PCS-6000 features super wide frequency coverage that includes AM air band from 118.000 to 135.995 MHz RX only, 20 channels of memory plus extra 1 that makes possible multifunctional scanning operations, programmable tone encoder, and much more. All the features are controlled by the custom-made high performance microprocessor.

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Assures Top Performance from EVERY Unit!

**THE LATEST MICROCOMPUTER TECHNOLOGY MOST ADVANCED 2M FM TRANSCEIVER**
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Better control of your business begins with Motorola/Radius 2-Way radios. Hip-pocket portability puts your entire operation in the palm of your hand. One push of a button and you're on-line communicating with the people working for you.

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### P200
The P200 is the clear choice to keep you on top of your business. Synthesized 2 or 6 channel operation, UHF or VHF. Meets MIL SPEC 810 C/D.

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The best synthesized value on the market. With 2 or 6 channels, UHF or VHF, the P100 will let you know what's going down while productivity goes way up.

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The P50 and P50+ are the tough talking tools no crew should be without. They will help make downtime an old war story. 1 or 2 channel operation, UHF or VHF.

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Radius' synthesized mobiles with 2, 6 or 16 channel operation put the whole workforce at your fingertips. UHF, VHF, 800 MHz or Low Band models available.

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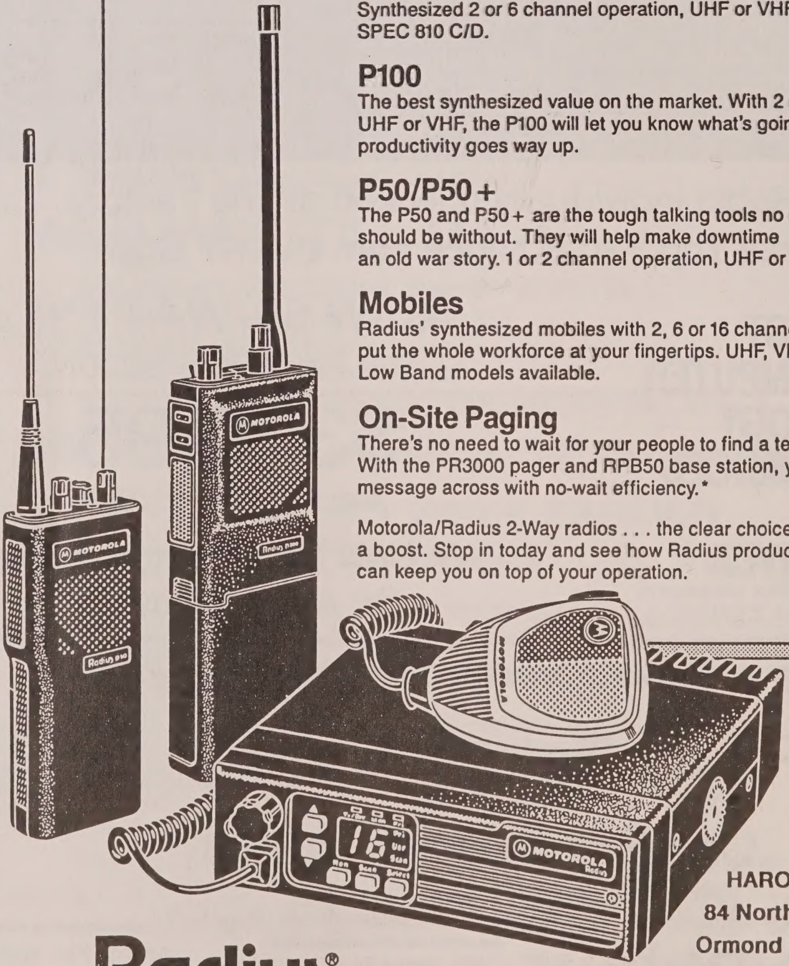
There's no need to wait for your people to find a telephone. With the PR3000 pager and RPB50 base station, you can get your message across with no-wait efficiency.*

Motorola/Radius 2-Way radios . . . the clear choice to give your business a boost. Stop in today and see how Radius products can keep you on top of your operation.



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*See us for warranty details.

## Concord N.C. Hamfest Cancelled

The Concord, North Carolina Hamfest scheduled for the first week in November had to be cancelled due to "Operation Desert Shield."

It seems that the Concord National Guard was called to active duty, as a result of the mid-East crisis. This we understand eliminated the use of their Armory for any public functions, so the hamfest had to be cancelled. The Cabarrus ARC, sponsors of the hamfest made the announcement in late October, after being unable to find another suitable site this year. It is expected the show will continue in 1991.

---

## Give A Gift of SERA The Repeater Journal

SERA has been a keeper of the coordination in some areas since 1971. We have dilligently worked with repeater owners to see that there is a a pleasant environment for users of repeaters. There have never been any requirements to join, or any payback required for the use of the troublefree, spectrum of VHF and UHF.

Before SERA in some States, there were other coordinators, who have since joined SERA. Regardless of who has been coordinating in the 8 SERA states for the past 20-years, someone has been doing something right.

Wouldn't you like to do a little something to help these people who have worked so hard for you, the repeater owner and user?

How about each of you getting us at least ONE new asssociate member between now and the end of the year. We're not soliciting for money....we want support in the form of membership. We hope you'll help!

# Jones Named New SERA South Carolina Director

Willard Jones, N4MNH has been appointed South Carolina Director for SERA. In making the appointment, SERA President, Carter Cogle, K4ARO said it was very good to find a man of Jones' calibre to fill this all important spot as South Carolina Coordinator.

Willard, 48, lives with his wife Judy and their three children in Charleston. He is co-woner with Roger Beck, N4ILT of the 444.30 Charleston repeater. N4MNH is not affiliated with any other clubs or organizations.

"I hope this will help people to understand I plan to be totally honest and fair in my coodination dealings," Jones told the Repeater Journal in a brief interview.

Willard said he was aware of a need for a Director in South Carolina, but didn't really think seriously about it until several friends talked him into it.

"Now that I've gotten in, and see what I'm supposed to do, I'm kinda excited about the whole deal," he said.

David Ward, KA4LVO, SERA Membership and Computer Chairman has already given Jones programs and the database of South Carolina repeaters. He has been sent all SERA forms, paperwork, and information necessary to carry on the job of State Director.

Willard said he will look forwrd to being of some assistance to anyone who might need his services, and hopes to get to know the repeater owners in South Carolina and be able to work well with them in the future. He wants to work on Full and Associate Membership in South Carolina.

Jones was appointed by SERA President Cogle in late August to fill the Director position on an interem basis through the end of the year. He is nominated for a full term as South Carolina Director for 1991-1992 and if unopposed will be elected permanently for a 2-year term.

The new South Carolina Director is in business, and ready to take on any coordination questions. Prospective repeater owners are urged to contact him direct. Willard's address and phone number appears under the Directors listing on Page 1. (editor)

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SIZES: S, M, L, XL, XXL

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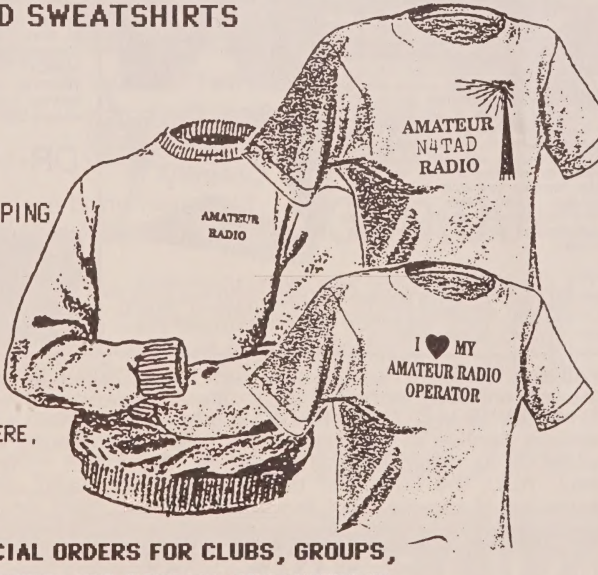

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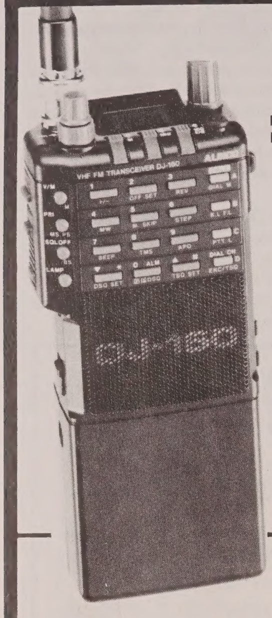
# WE MAKE HAMS HAPPY!



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### 2-Meter Handheld

List Price $379
Free UPS
**$259.00**

- 20 Memory channels and 1 call channel
- 3-Watts out on Standard 700 Mah Battery
- Built-in DC to DC on Battery (More Power)
- 6-Watts on Optional 12V 700 Mah Battery
- Keyboard entry — or by Up/Down keys
- Extended receive (137-173.995) Modifiable
- 5-different channel Steps in VFO
- 3 Scan Modes (Memory, Band or Program)
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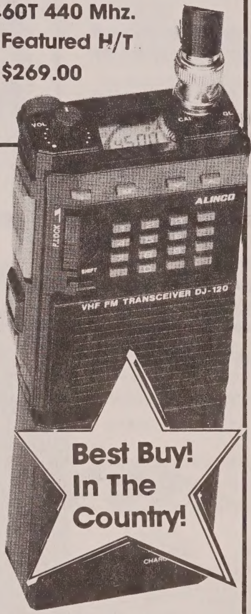
- "Dual Watch" (scan between call, VFO & Mem)
- "Priority" (can be used with VFO, Mem or Call)
- Automatic Battery Save Mode
- Automatic Power Off Function
- Two autodialer memories (up to 16 digits each)
- "Pager Function" (for individual or group alert)
- "Dial Function" (change frequency or memory)

**DJ-460T 440 Mhz.**
**Full Featured H/T**
**$269.00**



## DJ-120T

### 2-Meter Handheld

List Price $299
Free UPS
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DR-110
145.00

## DR-110T - 2-Meter 45-Watt Transceiver

The ALINCO DR-110T and the DR-112T are identical radios as far as features are concerned. The main difference is the LCD Readouts. If you are in bright sun a lot - the Black LCD with Orange Backlight on the DR-112T will benefit you most. In the shack or elsewhere, the extremely handsome Red LCD readout of the DR-110T is suitable. Either ALINCO you choose, you cannot go wrong.

| DR-110T - Red LCD Readout | DR-112T - Black LCD Readout |
|---|---|
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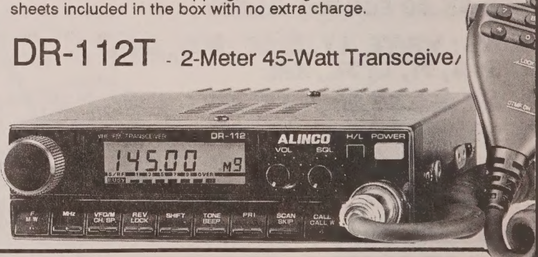

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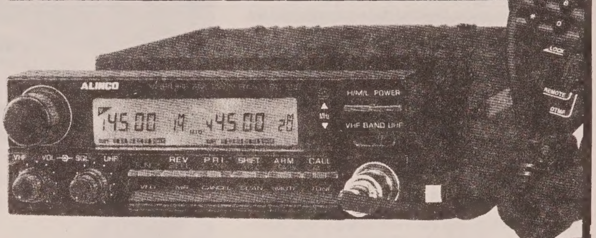
It's Alinco's Newest, most exciting Twin-Bander. The NEW DR-590T may be remoted with its optional remoting cable. 45/35W on 2M & 440, the DR 590T will carry its weight in any situation. Crossband Repeating is a snap. The DR-590T has a unique microphone, which allows you to tune memories, bands, codes and autodialer., plus 16 position DTMF. LCD readout visible in ANY lighting contitions, scans, a total of 40 memory channels, extended receive coverage, auto band exchange, full crossband duplex and much, much more.



**Remotable "Twin-Bander"**

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*Williams Super Price!*

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**Alinco "Twin Bander"**

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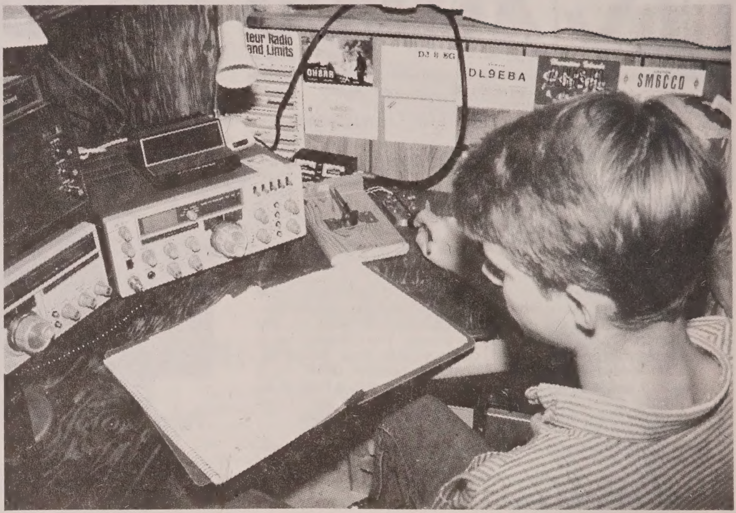
## 13 Years Old

# 11 Month Novice to Extra

## Cover Story



Joe Gabriel KC4MCX enjoys working CW in his hamshack. The 13-year-old also writes programs for his computer, and keeps in touch with Dad, Gerald, KC4MCW on Fm 2-Meters. The youngster rose through the ranks of Amateur Radio, Novice to Extra in an amazing 11 months.

Joseph Gabriel, KC4MCX was only 12 when he and his father Gerald, KC4MCW discovered Amateur Radio. This was a little over a year ago. Since that time, Joseph has turned 13 years old, but he has also gone from a Novice to an Extra Class Amateur.

Joe is the youngest member of the Centralina (NC) Amateur Radio Club. He owes his success to club members, especially Hugh Strong, NNO4N and Harry Harbinson, K4YJB of Catawba and Maiden, N.C. They were the ones who administered the Novice exams to Joe and his father in August of 1989.

After passing the Novice exam, Joe and his father attended the 1989 Shelby, NC Hamfest and passed the Technician theory exam. On December 2, the youngster passed his General theory and 20 wpm code exam, administered by the Charlotte VEC at Gastonia.

On June 30, 1990, Joe applied for his Advanced class exam again with Charlotte VEC. While applying for Advanced, he was asked if he had the 20 wpm code credit from Dec. 2. Misunderstanding the question, he replied "No" thinking they meant if he had it with him at the time. Therefore, he found himself, (not exactly confidently) taking the 20 wpm code test for the second time. But, nevertheless, he passed it, ready now for the theory for which he came. He easily passed the written test. This was a good payback for Dad, who had driven to an area Dealer that previous winter in December in snow and sleet to purchase the Advanced and Extra study guides for is son to study.

Looking back, Joe doesn't mind the extra code test. He agreed it was good practice, for, due to Hurricane Hugo, he was off the air for several months.

One month later, on July 30, Joe met his objective, to upgrade from Novice to Extra in less than a year. Novice on Aug. 22, 1989, and Extra on July 30, 1990.

There were many members of the local club (CARC) who were pulling for Joe, and lending him their help. Hugh Strong, NO4N, loaned him a key and some meters and offered much advice and guidance.

Joe is privately schooled at home, and ham radio was one of his electives. He is in the equivalent to the 9th grade.

His early start on code was done on a Model 4 TRS-80 computer used to generate random code practice. The program, in basic was written by Joe as one of his projects.

Joseph built his CW key from a TRS-80 magazine article. The "sideswiper" key consists of scraps of hacksaw blade for a spring, and two window latches for contacts. Joe still uses the contraption on the air and is capable of sending at between 20-27 wpm on it. His goal is to get an iambic keyer soon, but is also contructing one with parts as he acquires them.

### His Operating Station

Joe's JF rig is a Yaesu FT-107A with external speaker/patch and VFO. His antennas all built himself include an inverted "V" and various dipoles. He is also using a 10-meter converted "Big Stick". He and his father keep in touch with their 2-Meter rigs and H/T. Joe has worked 47 states on CW. (Incidentally, his first contact was Don, AI4O fo Statesville, N.C.) Joe said 99 percent of his operating is on CW. He doesn't like SSB!

Joe lives with his family in Sherrills Ford, NC. He has one younger brother, Michael, 7, who is anxious to follow his brother's footsteps, and perhaps even break Joe's achievement of climbing the amateur ladder in less than a year.

Among Joe's hobbies, he builds model planes and operating remotely controlled model cars. He is also writing computer programs. Other hobbies include skateboarding, playing Bluegrass and gospel on his guitar and many other things that 13-year-old boys like to do.

Joe did say that his TRS-80 computer causes quite a bit of interference in his HF radio. Anyone have any suggestions of how to solve the problem? Write him: Joe Gabriel, 7713 Sherrills Ford Road, Sherrills Ford, N.C. 28673, or call him at (704) 478-2444. (compiled from interview and data sheet by the Repeater Journal).

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## WEST VIRGINIA NOTES

By Ted Wolfe, WD4KHL

This is an appeal for information. How extensive an inroad has the Rose switch made in packet radio within the 8-state SERA territory?

I know little about the switch. I am not really a technical person. The subject has come up recently in our nightly 11:30 p.m. informal net on the St. Albans 147.150 Mhz repeater. I haven't read much about the Rose packet switch in ham publications. If you can cite some articles, let me know about them and I'll look up the magazines (borrow them) and do some reading.

John Harmon, N4OKL, earlier this year moved back to West Virginia from Florida. He keeps in touch via HF packet with his ham friends back there and has learned that a number of node operators in Florida have switched from TheNet to Rose. We also hear the switch is making inroads in California and the Northeast (down to the DC area, we hear). We have been trying to learn the advantages/disadvantages of the Rose switch compared to TheNet, with which we are all familiar around here. Also what about Rose compatibility with TheNet? Personally I don't like having to operate thorugh Ka-nodes, but that is neither here nor there for purposes of this column.

My mail address is: P.O. Box 133, Cabin Creek, WV 25035.

I also consider John the digicom guru around here since he has the system up and running at his Charleston QTH, with gateway to 10-meters, and crossover from 145.01 to 145.05 in his stack. He recently learned that the German originators of digicom have now developed a version for IBM compatibles, and it is also freeware. John is hoping to locate a source for the program and by the time this is in print he may have it and can pass it along (freeware, remember) to other interested hams in the area. And a number of hams with IBM clones upon hearing about this update have indicated an interest in trying digicom.

I have no further details at this time, but we expect like earlier versions the individual has to build his own modem to attach to his computer.

I can check packet mail to me, WD4KHL @ WB8CQV.WV.USA.NA, but I cannot print it out. Does anyone know of a terminal program for the Vic-20 for use with packet which will support a printer without a disc drive attached? Oh, the digicom modem I'm building (very slowly) will be used on a Commodore 64 with disc drive and printer which I can borrow from my cousin who lives next door.

The last sentence of the first paragraph of my August column on the fine Mid Ohio Valley Amateur Radio Club serving the Parkersburg area newsletter said: "There is no indication as to who is editor of the newsletter."

An item by Ken Harris, WA8LLM, in the September MOVARC newsletter addressed that comment. Ken noted there is no "one" editor. To quote him: "The mob that meets almost every Tuesday has their fingers in the newsletter. The program we use is Newsmaster II, and it is on an IBM compatible computer. The program doesn't have a spell checker, so after the articles are written we get somebody to look for any obvious mistakes. Duane (N8LDM) has found a way to use ProComm to type articles, spell check, and then dump them into the Newsletter, but it will be a while before we all start using it. Others that help type articles into the Newsletter from time to time are Karen (N8KFU), Ron (WD8RGZ), and Bill (WF8U). Just lately we have had access to a laser printer and (it) makes a better looking copy."

Just for my rolladex, fellows, if you have a packet address for those involved in the newsletter, just drop me a line.

• • •

You can now reach Ralph McDonough, K8AN, editor of the TSRAC B—N-T newsletter via packet: K8AN @ N8FSY. From editor's mailbox column in the September issue.

• • •

Terry North, WB8IFS, Charleston — who operates a number of packet nodes in West Virginia to provide critical paths through the state — indicates he plans to upgrade NOBE:-WB8IFS-1 at Nobe, WV. It was originally a part of the path from Charleston to the West and Northwest from there but has now been replaced by other nodes. So Terry plans to put it on 145.05 (from 145.01) and the backbone frequency of 446.5 Mhz.

I cannot offer any comment at this time for his proposed VHF/UHF nodes at Sharp's Knob. But I recently checked the "Information" command on several of his Charleston area nodes. CRWUHF:WB8IFS-5 has the information on the "I" command: "Appalachian UHF Packet network to WV, VA, TN, NC." On CRWLAN:WB8IFS-6 it is "The .05-446.5 connection Appalachian UHF Packet network."

On CRW5:N4OKL (John Harmon) node the information is: "Charleston, WV (145.050) Connect (WVCRW) for HF connect. Connect (Bee) for .01 network." His 10-meter station is on 28.195 Mhz.

SCRW:WB8CQV-2 is the MSYS node in South Charleston. From it you can access the WB8CQV bbs.

Other area notes — Bob Adams, N9DMK, has opened a new business in Marmet. I told him I hoped he would put one of his nodes somewhere nearby as I am always looking for another path out of here besides 145.010 Mhz. Maybe I'll be able to summarize his nodes next issue (Feb. 1991).

On copy deadline, Doug Sweeney, N8AJC, asked me to be sure to include in this column the news that the date has been selected for next year's Charleston, WV, Hamfest and Computer Show.

The event heretofore has been held on a Saturday, but Doug says hamfest organizers have learned it would be easier to get dealers for a Sunday show. So, for 1991 the Charleston, WV, Hamfest and Computer Show will be held at the Charleston Civic Center on SUNDAY, April 7.

Doug says he is handling the amateur radio dealer contacts and Terry Sanner is handling contacts in the computer sector. He wanted to provide both their addresses and telephone numbers, so here they are:

Doug Sweeney - N8AJC
933 Glen Way
South Charleston, WV 25309
Phone (304) 766-6655

Terry Sanner - WV8V
218 Forest Circle
South Charleston, WV 25303
Phone: (304) 744-8065

Sponsors are hoping that a related national organization might be able to hold its meeting at the same time in an adjacent area of the Civic Center. Hamfest organizers are working with the Antique Radio Association in the hope that the latter will be able to schedule its meeting concurrently with the hamfest.

An improvement to the 446.5 Mhz packet backbone has been made at BKWUHF:-WB8IFS-9. A new beam antenna has been installed aimed at WYTHEU:N4KZL-4 at Wytheville, VA. This is designed to eliminate occasional path failures experienced in the past between the two nodes.

This column will run only about half as long as the one in the previous (Aug. 1990) issue. I count on you to let me hear about the ham activities in your area and I haven't gotten much from you this time around. If it were not for the newsletters some clubs send I would have even less to write about.

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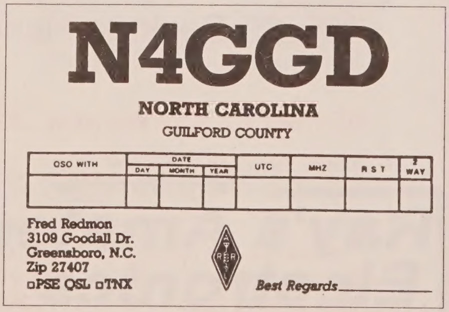

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| Feed Impedance | 50 Ohms | Windload | 4.4 sq. ft. |
| Balun | 4:1, 5kw PEP | Weight | 29 lbs. |
| Wavelength | 1.74 | Mast | 2″ |

### 6M-14

| ELECTRICAL | | MECHANICAL | |
|---|---|---|---|
| Bandwidth | 50-52 MHz | Elements | 14 |
| Gain | 14.0 dBd | Element Length | 116″ |
| VSWR @ 50.1 | less than 1.2 to 1 | Boom Size | 3″ o.d. × 61′ |
| Front-to-Back | 25 dBd | Turn Radius | 35½′ |
| Feed Impedance | 50 Ohms | Windload | 10 sq. ft. |
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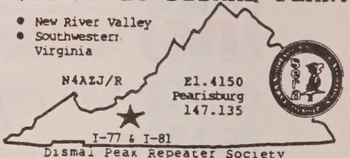

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# Coming Events

## NOVEMBER 1990

17-18 ........ Suncoast Conv. '90 TAMPA, FL
24 ........ 13th Annual Hamfest, MONTGOMERY, AL
24-25 ........ Hamfest, GREENSBORO, NC

## JANUARY, 1991

19 ........ GARS Hamfest, GREENWOOD, SC
19* ........ Hamfest, FT.MYERS, FL
20 ........ Frostfest, RICHMOND, VA
26 ........ Citrus Cty. Hamfest, CRYSTAL RIVER, FL
26 ........ Hamfest, SEVIERVILLE, TN
27* ........ Hamfest, GREENVILLE, AL

## FEBRUARY 1991

2-3 ........ Tropical Hamboree, MIAMI, FL
9* ........ Hamfest, PENSACOLA, FL
16-17 ........ Hamfest, SARASOTA, FL
16-17* ........ Capitol City Hamfest, JACKSON, MS
17 ........ Hamfest, ELKIN, NC
23 ........ Hamfest, STUART, FL
23* ........ Hamfest, DALTON, GA
23* ........ Hamfest, CHARLESTON, SC
23* ........ Hamfest, BROOKSVILLE, FL
24* ........ 14th Annual Hamfest, FAYETTEVILLE, WV
24* ........ Vienna Wireless Soc. Winterfest, VIENNA, VA

## MARCH 1991

2* ........ Swapfest, MORRISTOWN, TN
9-10* ........ Hamfest, LAFAYETTE, LA
9-10 ........ Hamfest/Computer Show, CHARLOTTE, NC
15-17 ........ Hamcation, ORLANDO, FL
16-17* ........ Swapfest, FT. WALTON BEACH, FL
23-24* ........ Hamfest. COLUMBUS, GA
24* ........ Hamfest, TIMONIUM, MD
30-31* ........ Baltimore Hamboree, TIMONIUM, MD

## APRIL 1991

2 ........ Hamfest, OAK RIDGE, TN
6-7* ........ Hamfest, LITTLE ROCK, AR
6* ........ 6th Spring Hamfest, CHESAPEAKE, VA
6* ........ Hamfest Kennehoochie, MARIETTA, GA
7 ........ Hamfest/Computer Show, CHARLESTON, WV
13* ........ Hamfest, CLARKSVILLE, TN
13* ........ Hamfest, OAK RIDGE, TN
14 ........ RARS Hamfest, RALEIGH, NC
26-27-28* ........ Hamvention, DAYTON, OH

## MAY 1991

4-5* ........ 52nd Annual Hamfest, GREENVILLE, SC
4-5* ........ Hamfest, BATON ROUGE, LA
11-12* ........ Hamfest, TOCCOA, GA
18* ........ 30th RVARC Mayfest, ROANOKE, VA
18-19* ........ Hamfest, BIRMINGHAM, AL
18-19* ........ Andrsn, Hrtwl, Toccoa RC HF, HARTWELL,GA
19* ........ TSRAC Hamfest, WHEELING, WV
25 ........ DurhamFest, DURHAM, NC
26* ........ MD. FM Assn. Hamfest, W. FRIENDSHIP, MD

## JUNE 1991

1-2* ........ Hamfest, ALBANY, GA
1-2* ........ Clev. ARC Starfest, CLEVELAND, TN
1 ........ 24th Annual Hamfest, KNOXVILLE, TN
1* ........ Athens RC Annual Hamfest, ATHENS, GA
2* ........ Hamfest, COLUMBUS, OH
2* ........ Hamfest, HUMBOLT, TN
2* ........ Hamfest, MANASSAS, VA
2* ........ Hamfest, MUNCIE, OH
8 ........ Hamfest, WINSTON-SALEM, NC
16* ........ Hamfest, FREDERICK, MD
29* ........ Hamfest, BLUEFIELD, WV
29-30* ........ WV St.ARRL Conv. JACKSON'S MILL, WV

## JULY 1991

6-7* ........ HamFestival, ATLANTA, GA
20* ........ Summer Swapfest, CARY, NC
27-28* ........ WCARS Hamfest, ASHEVILLE, NC
28* ........ BRATS Hamfest, TIMONIUM, MD

## AUGUST 1991

3-4* ........ 18th Hamfest, JACKSONVILLE, FL
4* ........ 41st Winchester Hamfest, BERRYVILLE, VA
10* ........ Hamfest, PARKERSBURG, WV
10* ........ Mid-Ohio Valley ARC Hamfest, PARKERSBURG, WV
10-11* ........ ARK-LA-TEX Hamfest, SHREVEPORT, LA
10-11* ........ 3rd High Point RC Hamfest, HIGH POINT, NC
11* ........ Central Ky Hamfest, LEXINGTON, KY
11* ........ Central ARRL Hamfest, GEORGETOWN, KY
17-18* ........ Hamfest, HUNTSVILLE, AL
24-25* ........ Hamfest, MADISON, GA
24-25* ........ Computerfest 91, DAYTON, OH
25* ........ Hamfest, CEDARS OF LEBANON, TN
25* ........ Hamfest 91, ST. CHARLES, MO
31-Sep 1* ........ 34th Annual Hamfest, SHELBY, NC

## SEPTEMBER 1991

7-8* ........ Hamfest, MELBOURNE, FL
8* ........ Foundation AR Hamfest, GAITHERSBURG, MD
14-15* ........ Hamfest/Computer Show VIRGINIA BEACH, VA
14-15* ........ Cincy Hamfest, CINCINATTI, OH
15* ........ Hamfest, CLEVELAND, OH
21* ........ Hamfest, SPRUCE PINE, NC
21-22* ........ Hamfest & Computer Show, MOBILE, AL
22* ........ Hamfest, Lanierland ARC, GAINSVILLE, GA
28* ........ Hamfest, ANNISTON, AL
28* ........ TARA, Hamfest, HUNTINGTON, WV
28-29* ........ Hamfest, LOUISVILLE, KY
29* ........ 3rd Annual JARSFEST, BENSON, NC

## OCTOBER 1991

5* ........ Hamfest, ROME, GA
5-6* ........ Hamfest, BILOXI, MS
6* ........ Hamfest, ROCK HILL, SC
12* ........ Central Ga. Hamfest, WARNER ROBBINS, GA
12-13* ........ "Memfest '91" Hamfest, MEMPHIS, TN
12-13* ........ 12th Ham Com-Vention, HOUSTON, TX
12-13* ........ 38th Hamfest/Computer Show, AUGUSTA, GA
12-13* ........ Hamfest, W.PALM BEACH, FL
13* ........ 14th Annual CARA Hamfest, HOWARD CTY, MD
13* ........ Hamfest, MAYSVILLE, NC
19* ........ Triangle East ARA Hamfest, SMITHFIELD, NC
19* ........ Tri-Cities Hamfest, GRAY, TN
26* ........ Hamfest, SUMTER, SC
26-27* ........ Hamfest,CHATTANOOGA, TN

## NOVEMBER 1991

2-3* ........ Ham Radio/Comp. Expo '91, LAWRENCEVILLE, GA
9-10* ........ Hamfest, FT. LAUDERDALE, FL
10* ........ Hamfest, CONCORD, NC
16-17* ........ Suncoast Conv. '91 TAMPA, FL
23-24* ........ Hamfest, GREENSBORO, NC
23* ........ 14th Annual Hamfest, MONTGOMERY, AL

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(Please note: Hamfest dates marked with an asterisk(*) are NOT confirmed. Hamfest sponsors are urged to get their correct show dates to the RepeaterJournal editor as soon as possible. Unconfirmed dates are based on information from the previous year's show date. The Repeater Journal assumes no responsibility or liability for incorrect dates,whether they be from lack of information, or from typographical errors in typesetting and printing.)

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| ALINCO Electronics (CA) | Ins. Ft. & Ins. Bk. Covers II,III |
| Cap 'N' Badge Man (SC) | 35 |
| Certified Communications (SC) | 48 |
| Charlotte Hamfest (NC) | 36 |
| CQ Magazine (NY) | 18 |
| C.S.R.A. Communications (GA) | 13 |
| Den-Tronics (MI) | 48 |
| Dynamic Engravers (NC) | 16 |
| Electronic Specialists (NC) | 8,19,48 |
| F & M Electronics (GA) | 7,29,34 |
| Greensboro Hamfest (NC) | 4-5 |
| Greenwood Hamfest (SC) | 33 |
| H.L. Heaster (FL) | 38 |
| H.P.D. Co. (NC) | 9 |
| ICOM America (WA) | Outside Bk.Cover IV |
| K.I.S.S. QSL's (NC) | 43 |
| Lakeview Co. (Mobile Antennas)(SC) | 35 |
| Mirage/KLM (CA) | 45 |
| QSLs by W4MPY (SC) | 39 |
| Ray's Amateur Electronics (NC) | 17,37,44 |
| Richmond Frostfest (VA) | 10 |
| Shelby Hamfest (NC) | 16 |
| Technologies, Inc. (GA) | 12 |
| Tops Unlimited (NC) | 39 |
| West Antenna Service (NC) | 32 |
| Williams Radio Sales (NC) | 11,15,40,41 |
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## DJ-100T & DJ-120T & DJ-200T

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The Alinco DJ-100T/DJ-120T is "Magnificent" for its tiny size, but stands up to the competition with power and capability. 10 memory channels store offsets and subtones. Has LCD readout with call channels and reverse at your fingertips. 500 mah battery with direct DC to DC is standard. 3W on standard battery, 6W on optional battery leaves the competition in the dust! DJ-200T for 220 MHz.

## DJ-500T

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20 Memory channels, subtones, built-in DC to DC, 700 mah nicad battery, LCD readout with 6W on 2M and 5W on 70cm (with optional battery) call channels, DTMF Touchtone, and direct keyboard entry, are just the few winning features of the Alinco DJ-500T Dual Band Handheld. Easy to use, and Value Priced at your Alinco Dealer.

## DJ-160T & DJ-460T

### 2M H/T is here! And wow!

"Bells & Whistles" is a tame word to use for the new DJ-160T, newest "Magnificent" one from Alinco. Keyboard entry is just one of four ways to enter a frequency in the extended receiver (137-173. 995 Mhz) of the DJ-160T. You can store duplex /simplex pairs in any of 20 Memories, or Call Channel, with offsets, and any of 38 encoding subtones. Choose one of 3 scan modes, "Band" "Program" or "Memory" and one of five step ranges in VFO. Priority mode can be used in VFO, Memory or Call. "Dual Watch" allows the DJ-160T to scan 3 seconds alternately on CALL, VFO or one MEMORY. "Pager" is for group or single person alert. Other features include: Auto "Battery Save", Auto "Power Off", and 2-Memory Autodialer. Get 3-watts on standard 700 mah battery, or increased power from built-in DC to DC, or optional 12V battery. The Alinco DJ-160T, now the "Top Gun" with the competition today! DJ-460T for 70 cm.

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ICOM's IC-24AT and IC-32AT call you to action with the most feature packed, power packed dual band handhelds available. Whether you prefer the convenience of a mini-handheld or the grasp of a full-size handheld, ICOM has the dual-bander fit for you.

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**PROGRAMMABLE SCANNING.** Both units scan band and memories plus offer easy memory lockout and instant memory recall.

**PRIORITY WATCH.** Monitor the call channel, a memory channel or all memory channels every five seconds while operating!

**ADDITIONAL FEATURES INCLUDE:** Battery saver, multi-function LCD readout, dial selectability and DTMF pad for memory channel autopatching. The compact light-weight IC-24AT also features a 24 hour clock with timer, and an autodialer. Access to multi-digit phone numbers at the touch of a button.

**ACCESSORIES:** The IC-24AT uses accessories from the "S" Series handhelds while the IC-32AT is compatible with all IC-2AT/02AT accessories. An optional UT-50 provides all subaudible tones while the optional UT-40 beeper silently monitors a busy channel for your calls. When the preprogrammed subaudible tone is received, the unit beeps and the LCD flashes. The dual is over, ICOM's IC-24AT mini-dual bander and IC-32AT full-size dual bander give you maximum performance in the package best suited for your needs. Check your local ICOM dealer for the finest dual banders available today. The ICOM IC-24AT and IC-32AT.

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